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The Commonwealth of Massachusetts.

1912

ASSESSMENTS

FOR

INTEREST, SINKING FUNDS
AND MAINTENANCE

OF THE

METROPOLITAN DISTRICTS.

ISSUED BY THE

TREASURER AND RECEIVER-GENERAL.



BOSTON:

WRIGHT & POTTER PRINTING CO., STATE PRINTERS,

18 POST OFFICE SQUARE.

1912.

The Commonwealth of Massachusetts.

TREASURY DEPARTMENT, Aug. 15, 1912.

Computations for the annual assessments for interest, sinking fund, serial bond payments and maintenance for 1912, to be paid by the cities and towns comprising the various metropolitan districts, are printed and sent to the cities and towns in said districts in compliance with chapter 526 of the Acts of the year 1911, herewith submitted: —

CHAPTER 526.

AN ACT TO PROVIDE FOR PUBLISHING IN THE SERIES OF PUBLIC DOCUMENTS CERTAIN STATEMENTS RELATIVE TO THE METROPOLITAN PARKS, SEWERAGE AND WATER DISTRICTS.

Be it enacted, etc., as follows:

SECTION 1. The treasurer and receiver general shall annually, as soon after the prorogation of the general court as is practicable, cause to be published statements showing the assessments for interest, sinking funds and maintenance requirements due from cities and towns in the metropolitan sewerage systems, north and south, metropolitan parks and water districts; a statement showing the several classes of debts incurred for metropolitan district purposes, and the share of the cities and towns in the several districts as measured by the basis used in computing the assessments mentioned in the first statement; and such other statements, if any, as he may deem advisable.

SECTION 2. Two thousand copies of the said statements shall be printed and numbered as one of the public document series. The expense of printing shall be apportioned and paid in equal parts from the maintenance funds of the sewerage systems, north and south, the parks system and water system.

SECTION 3. Chapter five hundred and seventeen of the acts of the year nineteen hundred and ten is hereby repealed.

SECTION 4. This act shall take effect upon its passage. [*Approved June 6, 1911.*]

The apportionment commissioners last appointed under the Acts of the year 1899, chapter 419, found and awarded that the city of Boston should pay to the Commonwealth for the con-

struction of the embankment and park provided for by section 9 of chapter 465 of the Acts of the year 1903, as amended by section 2 of chapter 402 of the Acts of the year 1906, the sum of \$847,636.43. As provided by law, the city of Boston is to pay to the Commonwealth 4 per cent. interest on this amount from the date of the apportionment to the date of payment. The amount paid to the Commonwealth by the city of Boston on this account Dec. 1, 1911, the beginning of the fiscal year, was \$100,002.77, leaving a balance due of \$747,633.66. All interest received on this account is credited to the sinking fund established for the payment of the metropolitan parks district's proportion of the Charles River Basin expenditures. The amount already in this sinking fund, together with that due from the city of Boston, the earnings of which are credited to the district sinking fund, will be sufficient to sink the debt at maturity without any further assessment.

In the tables showing the net debts of the metropolitan district, the sinking funds are given as of June 1, 1912.

ELMER A. STEVENS,
Treasurer and Receiver-General.

Total Assessments for Metropolitan Districts for 1912.

	Metropolitan Water.	Metropolitan Parks and Boulevards.	Metropolitan Sewer, North and South Systems.	Charles River Basin.	Total.
Arlington, . .	\$18,996 13	\$9,412 45	\$11,166 80N	\$934 79	\$40,510 17
Belmont, . .	8,591 38	5,618 26	6,122 08N	531 91	20,863 63
Boston, . .	1,792,123 83	597,213 86	<div> <div>79,330 28N</div> <div>206,607 49s</div> </div>	116,813 66	2,792,089 12
Braintree, . .	—	1,895 63	—	502 15	2,397 78
Brookline, . .	—	47,207 28	86,141 28s	9,196 78	142,545 34
Cambridge, . .	—	60,429 24	105,568 39N	14,927 29	180,924 92
Canton, . .	—	1,350 09	—	358 07	1,708 16
Chelsea, . .	48,658 68	13,757 37	26,283 29N	1,977 32	90,676 66
Cohasset, . .	—	197 58	—	—	197 58
Dedham, . .	—	6,181 67	11,806 49s	1,106 68	19,094 84
Dover, . .	—	1,681 07	—	444 99	2,126 06
Everett, . .	47,338 81	15,931 68	30,458 27N	2,120 64	95,849 40
Hingham, . .	—	2,031 44	—	538 46	2,569 90
Hull, . .	—	1,636 53	—	435 32	2,071 85
Hyde Park, . .	— ¹	8,203 65	14,538 32s	1,167 70	23,909 67
Lexington, . .	8,173 66	—	4,291 41N	—	12,465 07
Lynn, . .	—	35,833 55	—	5,748 91	41,582 46
Malden, . .	43,833 54	23,906 26	45,205 60N	3,492 69	116,438 09
Medford, . .	27,130 03	19,319 02	22,710 68N	1,881 92	71,041 65
Melrose, . .	20,978 01	9,412 75	15,804 48N	1,323 37	47,518 61
Milton, . .	16,312 53	18,305 37	22,109 46s	2,330 79	59,058 15
Nahant, . .	5,784 61	6,055 24	—	627 31	12,467 16
Needham, . .	—	2,751 49	—	477 44	3,228 93
Newton, . .	6,274 75	33,970 26	65,065 35s	6,271 14	111,581 50
Quincy, . .	54,558 24	21,503 81	29,944 04s	2,373 65	108,379 74
Reading, . .	—	42 20	—	—	42 20
Revere, . .	27,919 68	12,907 30	15,635 77N	1,214 43	57,677 18
Saugus, . .	—	2,887 21	—	451 54	3,338 75
Somerville, . .	109,232 14	34,825 64	65,629 12N	5,074 86	214,761 76
Stoneham, . .	10,019 69	2,808 47	5,466 51N	400 94	18,695 61
Swampscott, . .	10,814 10	4,791 20	—	874 51	16,479 81
Wakefield, . .	—	4,629 13	9,708 90N	750 53	15,088 56
Waltham, . .	—	13,173 87	27,160 76s	2,216 04	42,550 67
Watertown, . .	18,600 53	6,950 10	14,045 40s	1,200 14	40,796 17
Wellesley, . .	—	6,254 77	—	1,189 73	7,444 50
Weston, . .	—	3,487 51	—	677 90	4,165 41
Westwood, . .	—	804 59	—	212 82	1,017 41
Weymouth, . .	—	2,432 75	—	645 46	3,078 21
Winchester, . .	—	8,962 61	11,776 36N	1,072 30	21,811 27
Winthrop, . .	14,150 34	5,487 20	10,981 06N	947 14	31,565 74
Woburn, . .	—	5,709 70	12,147 55N	904 27	18,761 52
	\$2,289,490 68	\$1,059,959 80 ²	\$955,705 14 ³	\$193,415 59	\$4,498,571 21

N, North System.

S, South System.

¹ Included in Boston.² Includes \$12,516.12 special assessment on Wellington bridge, also Alewife Brook.³ Includes \$5,317.80 special sewerage for Malden and Everett.

STATEMENT I.

METROPOLITAN WATER DISTRICT.

Total Water Debt, April 1, 1912.

The gross metropolitan water debt, April 1, 1912, was . . . \$41,783,000 00
an increase for the year of \$185,000.

The sinking fund established for payment of same April 1, 1912,
amounted to 9,059,901 97
an increase for the year of \$876,010 51.

The net metropolitan water debt April 1, 1912, \$32,723,098 03
a decrease for the year of \$691,010.51.

Total Metropolitan Water Assessment for 1912.

Sinking fund requirements,	\$512,884 00
Serial bond,	\$10,000 00
Less premiums,	663 10
	<hr/>
	9,336 90

Interest:—

One year on \$41,593,000,	\$1,400,260 00
Six months on \$195,000,	3,412 50
Interest from Aug. 4, 1911, to March 1, 1912, on	
\$40,000,	
Interest from Aug. 17, 1911, to March 1, 1912, on	
\$100,000,	2,486 25
Interest on advances estimated 1912,	25,000 00
American Bank Note Com- pany,	\$70 00
Boston News Bureau,	46 31
	<hr/>
	\$116 31
Less interest on deposit,	72 76
	<hr/>
	43 55

\$1,431,202 30

Less interest on advances over-esti-

mated in 1911,	\$1,114 36
Accrued interest,	517 22
	<hr/>
	1,631 58

1,429,570 72

Maintenance as appropriated by Legislature,	\$426,000 00
Less balance on hand,	88,300 94
	<hr/>
	337,699 06

Total water assessment for 1912, \$2,289,490 68

METROPOLITAN WATER LOAN.

Sinking Fund.

BONDS ISSUED.	Due Date.	Sinking Fund Dec 1, 1911.	Amount of 1911 Sinking Fund at Maturity of Loan, Accumu- lations reckoned at 3 Per Cent.	Balance to be sunk.	Sinking Fund Re- quirements for 1912.
\$13,000,000	July, 1935	\$3,935,186 75	\$7,922,629 69	\$5,077,370 91	\$156,034 00
4,000,000	Jan., 1938	1,007,293 08	2,184,691 10	1,815,308 90	46,941 00
4,000,000	July, 1939	843,729 58	1,913,531 39	2,086,468 61	51,088 00
10,000,000	Jan., 1941	1,757,806 33	4,168,707 90	5,831,292 10	128,506 00
3,500,000	Jan., 1942	575,651 16	1,406,442 27	2,093,557 73	43,845 00
2,000,000	Jan., 1943	281,114 47	707,583 69	1,292,416 31	25,750 00
2,000,000	Jan., 1944	248,740 56	645,020 18	1,354,979 82	25,707 00
650,000	Jan., 1945	104,750 92	279,844 40	370,155 60	6,694 00
1,350,000	Jan., 1946	137,074 52	377,265 94	972,734 06	16,779 00
398,000	Jan., 1949	21,069 14	63,406 52	334,593 48	5,033 00
500,000	Jan., 1950	15,422 44	47,815 89	452,184 11	6,507 00
\$41,398,000	—	\$8,927,838 95	\$19,716,938 37	\$21,681,061 63	\$512,884 00

Computations for determining the Assessment for 1912. (See Chapter 488, Acts of 1895, as amended in 1901, 1904 and 1906.)

[The proportion to be paid by each city and town is based on the ratio of its valuation of property to its consumption of water, with double weight being given to consumption. The last column shows the total ratio to be paid by each city and town of the whole assessment. To find each town's assessment, multiply the total assessment by the average ratio.]

CITIES AND TOWNS.	Valuation April 1, 1911.	Average Daily Con- sumption (Gallons), 1911.	RATIO OF TOTALS.		Average Ratio, Double Weight to Consump- tion.
			Valuation.	Consump- tion.	
Boston,	\$1,428,344,814	85,571,500	.788,712,413	.779,785,171	.782,760,918
Hyde Park,	15,629,265	911,900		.024,357,410	.021,253,059
Chelsea,	27,543,200	2,701,400	.015,044,359	.023,062,628	.020,676,568
Everett,	29,117,850	2,557,800	.015,904,447	.017,774,400	.019,145,546
Malden,	40,072,236	1,971,300	.021,887,837	.010,883,923	.011,849,808
Medford,	25,231,300	1,207,100	.013,781,577	.009,129,295	.009,162,745
Melrose,	16,897,625	1,012,500	.008,222,022	—	.002,740,674
Newton, ¹	15,052,871	—	.018,735,323	.026,377,126	.023,829,858
Quincy,	34,300,615	2,925,400	.036,751,199	.053,189,753	.047,710,235
Somerville,	67,284,066	5,899,100	.007,161,071	.008,865,109	.008,297,096
Arlington,	13,110,483	953,200	.003,764,793	.003,746,392	.003,752,526
Belmont,	6,892,580	415,500	—	—	—
Hyde Park, ²	—	—	.004,346,331	.003,181,954	.003,570,080
Lexington,	7,957,260	352,900	.015,645,737	.002,864,570	.007,124,959
Milton,	28,644,203	317,700	.004,838,737	.001,370,521	.002,526,593
Nahant,	8,858,756	152,000	.010,627,201	.012,978,477	.012,194,718
Revere,	19,456,271	1,439,400	.002,790,740	.005,169,210	.004,376,387
Stoneham,	5,109,284	573,300	.006,457,298	.003,856,395	.004,723,363
Swampscott,	11,822,017	427,700	.008,337,814	.008,017,550	.008,124,304
Watertown,	15,264,865	889,200	.007,761,457	.005,390,116	.006,180,563
Winthrop,	14,209,670	597,800			
	\$1,830,799,231	110,906,700	1,000,000,000	1,000,000,000	1,000,000,000

¹ In accordance with the provisions of the act above referred to, but one-fifth of the total valuation and no consumption has been taken, for at present this city has a sufficient supply, and has not made application for water.

² See Boston.

METROPOLITAN WATER LOAN.

Division of the Assessment for 1912 into Cost of Maintenance, Interest and Sinking Fund Requirements.

CITIES AND TOWNS.	Interest.	Sinking Funds.	Cost of Maintenance.	Serial Bonds.	Total Assessment.
Arlington, . . .	\$11,861 29	\$4,255 45	\$2,801 92	\$77 47	\$18,996 13
Belmont, . . .	5,364 50	1,924 61	1,267 23	35 04	8,591 38
Boston, . . .	1,119,012 09	401,465 55	264,337 63	7,308 56	1,792,123 83
Chelsea, . . .	30,382 75	10,900 35	7,177 14	198 44	48,658 68
Everett, . . .	29,558 62	10,604 68	6,952 46	193 05	47,338 81
Hyde Park, . . .	- 1	- 1	- 1	- 1	- 1
Lexington, . . .	5,103 68	1,831 04	1,205 61	33 33	8,173 66
Malden, . . .	27,369 91	9,819 44	6,465 43	178 76	43,833 54
Medford, . . .	16,940 14	6,077 58	4,001 67	110 64	27,130 03
Melrose, . . .	13,098 79	4,699 42	3,094 25	85 55	20,978 01
Milton, . . .	10,185 63	3,654 28	2,406 09	66 53	16,312 53
Nahant, . . .	3,611 94	1,295 85	853 23	23 59	5,784 61
Newton, . . .	3,917 99	1,405 65	925 52	25 59	6,274 75
Quincy, . . .	34,066 47	12,221 95	8,047 32	222 50	54,558 24
Revere, . . .	17,433 21	6,254 47	4,118 14	113 86	27,919 68
Somerville, . . .	68,205 16	24,469 82	16,111 70	445 46	109,232 14
Stoneham, . . .	6,256 35	2,244 58	1,477 90	40 86	10,019 69
Swampscott, . . .	6,752 38	2,422 54	1,595 08	44 10	10,814 10
Watertown, . . .	11,614 27	4,166 83	2,743 57	75 86	18,600 53
Winthrop, . . .	8,835 55	3,169 91	2,087 17	57 71	14,150 34
	\$1,429,570 72	\$512,884 00	\$337,699 06	\$9,336 90	\$2,289,490 68

¹ Included in Boston.

Comparison of Total Assessments, 1911 and 1912, with Revenue from Water Rates in 1911.

CITIES AND TOWNS.	WATER ASSESSMENTS.		Water Revenue received by Cities and Towns, 1911.
	1911.	1912.	
Arlington,	\$18,249 50	\$18,996 13	\$58,667 04
Belmont,	7,439 82	8,591 38	22,240 56 ¹
Boston,	1,825,362 87	1,792,123 83	2,798,313 68 ²
Chelsea,	50,649 44	48,658 68	135,282 97
Everett,	47,962 56	47,338 81	108,933 35 ²
Hyde Park,	1,288 44 ³	— ⁴	— ⁴
Lexington,	8,238 55	8,173 66	26,870 94
Malden,	43,828 06	43,833 54	95,659 52 ²
Medford,	30,159 23	27,130 03	73,052 76 ⁵
Melrose,	21,200 18	20,978 01	40,789 38 ²
Milton,	16,036 02	16,312 53	49,587 77
Nahant,	5,308 47	5,784 61	11,771 06
Newton,	6,476 92 ³	6,274 75 ³	—
Quincy,	54,410 43	54,558 24	128,466 48 ²
Revere,	26,022 35	27,919 68	68,028 54
Somerville,	115,094 29	109,232 14	243,257 75 ²
Stoneham,	11,255 28	10,019 69	30,893 66 ¹
Swampscott,	10,651 30	10,814 10	36,957 26
Watertown,	18,569 01	18,600 53	58,386 64
Winthrop,	14,819 25	14,150 34	50,039 13
	\$2,333,021 97	\$2,289,490 68	\$4,037,198 49

¹ No money received for hydrant rentals or water used for street watering.

² No money received for hydrant rentals or water used for street watering and other municipal purposes.

³ Not taking water from the district.

⁴ Included in Boston.

⁵ No money received for hydrant rentals.

Net Water Debt of Cities in the Original Metropolitan Water District.

CITIES.	1911.	1912.	Reduction.
Boston,	\$386,765 45	\$318,503 70	\$68,261 75
Somerville,	50,000 00	44,000 00	6,000 00
Chelsea,	146,729 00	171,320 00	24,591 00 ¹
Everett,	74,391 92	65,114 42	9,277 50
Malden,	64,148 57	64,333 29	184 72 ¹
Medford,	—8,575 51 ²	—8,002 30 ²	573 21 ¹
Melrose,	88,029 45	95,029 45	7,000 00 ¹
	\$801,488 88	\$750,298 56	\$51,190 32

¹ Increase.

² Amount in sinking fund greater than outstanding debt.

STATEMENT II.

METROPOLITAN PARKS DISTRICT.

The gross metropolitan parks debt, April 1, 1912, was . . . \$9,548,000 00
an increase for the year of \$13,000.

The sinking funds established for payment of same, April 1, 1912,
amounted to 2,313,281 28
an increase for the year of \$205,978.61.

Net metropolitan parks debt, April 1, 1912, \$7,234,718 72
a decrease for the year of \$192,978.61.

BOULEVARDS.

The gross metropolitan parks, series two, (boulevards) debt (one-
half), April 1, 1912, was \$2,567,500 00
showing no change for the past year.

The sinking funds established for payment of same, April 1, 1912,
amounted to 560,036 77
an increase for the year of \$58,393.41.

Net metropolitan parks, series two (boulevards) debt, April 1, 1912,
was \$2,007,463 23
a decrease for the year of \$58,393.41.

METROPOLITAN PARKS LOAN.

The total parks assessment for 1912 is made up as follows:—

Parks sinking fund,	\$107,964 00
Parks, series two, sinking fund,	30,728 00
Nantasket sinking fund,	7,839 00
Serial bonds,	\$2,750 00
Less premium,	52 35
	<hr/>
	2,697 65

Parks interest:—

One year on \$8,833,000, . . .	\$302,905 00
Six months on \$17,000, . . .	297 50
Interest on advances esti- mated,	7,000 00
Interest on advances in 1912 not collected,	2,695 71
	<hr/>
	\$312,898 21
Less accrued interest,	\$40 84
Less Boston News Bureau,	3 65
	<hr/>
	37 19

312,861 02

Amount carried forward, \$462,089 67

<i>Amounts brought forward,</i>					\$462,089 67
Parks, series two, interest: —					
One year on \$2,567,500,				\$87,737 50	
Interest on advances, 1911, not assessed,				840 41	
Interest on advances estimated,				1,000 00	
				<hr/>	89,577 91
Nantasket interest: —					
One year on \$700,000,					21,000 00
Parks maintenance,				\$361,038 46	
Less balance on hand,				3,900 45	
				<hr/>	357,138 01
Boulevard maintenance, one-half,				\$94,741 50	
Less balance on hand, one-half,				5,258 74	
				<hr/>	89,482 76
Nantasket maintenance,				\$26,500 00	
Less balance on hand,				454 55	
				<hr/>	26,045 45
Wellington Bridge maintenance, one-half,				\$2,756 00	
Less balance on hand, one-half,				646 12	
				<hr/>	2,109 88
Total parks assessment for 1912,					<hr/> \$1,047,443 68

METROPOLITAN PARKS, INCLUDING BOULEVARDS, NANTASKET, AND
SERIAL LOANS.

Total Assessment and Grand Total.

	Total Sinking Fund.	Total Interest.	Total Mainte- nance.	Total Serial Bonds.	Grand Total.
Arlington, . . .	\$974 08	\$2,819 53	\$3,106 12	\$15 22	\$6,914 95
Belmont, . . .	542 34	1,569 75	1,728 69	8 42	3,849 20
Boston, . . .	83,376 09	240,817 10	271,416 84	1,603 83	597,213 86
Braintree, . . .	265 93	766 97	858 22	4 51	1,895 63
Brookline, . . .	6,593 11	19,039 10	21,449 55	125 52	47,207 28
Cambridge, . . .	7,768 60	22,456 69	25,169 28	143 73	55,538 30
Canton, . . .	189 40	546 24	611 24	3 21	1,350 09
Chelsea, . . .	1,926 66	5,572 20	6,223 74	34 77	13,757 37
Cohasset, . . .	28 22	75 60	93 76	-	197 58
Dedham, . . .	862 48	2,491 30	2,811 06	16 83	6,181 67
Dover, . . .	235 85	680 20	761 03	3 99	1,681 07
Everett, . . .	2,239 69	6,481 81	7,173 28	36 90	15,931 68
Hingham, . . .	284 97	821 94	919 70	4 83	2,031 44
Hull, . . .	229 59	662 16	740 90	3 88	1,636 53
Hyde Park, . . .	1,152 08	3,333 12	3,699 00	19 45	8,203 65
Lynn, . . .	4,995 34	14,434 51	16,304 13	99 57	35,833 55
Malden, . . .	3,268 38	9,452 27	10,537 25	57 60	23,315 50
Medford, . . .	2,633 78	7,637 33	8,215 35	30 81	18,517 27
Melrose, . . .	1,323 93	3,831 02	4,236 30	21 50	9,412 75
Milton, . . .	2,599 17	7,531 03	8,143 12	32 05	18,305 37
Nahant, . . .	872 31	2,532 67	2,644 65	5 61	6,055 24
Needham, . . .	383 76	1,108 60	1,251 58	7 55	2,751 49
Newton, . . .	4,741 31	13,694 07	15,442 16	91 72	33,970 26
Quincy, . . .	3,048 20	8,834 14	9,581 60	39 87	21,503 81
Revere, . . .	1,837 50	5,329 76	5,719 19	20 85	12,907 30
Saugus, . . .	402 26	1,162 41	1,314 42	8 12	2,887 21
Somerville, . . .	4,618 39	13,350 94	14,992 66	87 43	33,049 42
Stoneham, . . .	371 42	1,073 66	1,208 50	7 20	2,660 78
Swampscott, . . .	668 63	1,931 25	2,178 34	12 98	4,791 20
Wakofield, . . .	615 16	1,864 13	2,106 92	12 92	4,629 13
Waltham, . . .	1,536 77	5,306 59	5,994 06	36 45	13,173 87
Watertown, . . .	969 30	2,800 18	3,161 52	19 10	6,950 10
Wellesley, . . .	873 30	2,522 04	2,842 68	16 75	6,254 77
Weston, . . .	487 07	1,406 49	1,584 67	9 28	3,487 51
Westwood, . . .	112 86	325 53	364 28	1 92	804 59
Weymouth, . . .	341 30	984 35	1,101 33	5 77	2,432 75
Winchester, . . .	1,270 91	3,682 60	3,992 70	16 40	8,062 61
Winthrop, . . .	765 28	2,210 76	2,496 08	15 08	5,487 20
Woburn, . . .	795 58	2,298 89	2,599 20	16 03	5,709 70
	\$146,531 00	\$423,438 03	\$474,776 10	\$2,697 65	\$1,047,443 68 ¹

¹ Exclusive of \$12,516.12 special assessment for Wellington Bridge, also Alewife Brook, which are included on page 5.

METROPOLITAN PARKS.

The total amount of bonds issued for the metropolitan parks is \$16,542,500, including one-half of those for the boulevards, also called series two, those for the improvement of the Charles River basin, \$185-317.42 for the Wellington Bridge, \$16,000 for Newton and Wellesley bridge and \$125,000 for Alewife Brook.

Proportions to be paid annually as found by Commissioners.

	Parks, 1910-1915.	Boulevards, 1910-1915.	Nantasket, 1910-1915.
Boston, . . . . .	.59453	.46943	.60768
Cambridge, . . . . .	.05328	.05317	.04879
Chelsea, . . . . .	.01289	.01463	.01090
Everett, . . . . .	.01368	.02184	.01169
Lynn, . . . . .	.03691	.02480	.03168
Malden, . . . . .	.02135	.02644	.01925
Medford, . . . . .	.01142	.04294	.01038
Melrose, . . . . .	.00797	.01322	.00730
Newton, . . . . .	.03400	.02602	.03457
Quincy, . . . . .	.01478	.04393	.01309
Somerville, . . . . .	.03241	.02929	.02797
Waltham, . . . . .	.01351	.00919	.01222
Woburn, . . . . .	.00594	.00375	.00498
Arlington, . . . . .	.00564	.01057	.00515
Belmont, . . . . .	.00312	.00594	.00293
Braintree, . . . . .	.00167	.00208	.00277
Brookline, . . . . .	.04653	.03815	.05068
Canton, . . . . .	.00119	.00148	.00197
Cohasset,	—	—	.00360
Dedham, . . . . .	.00624	.00459	.00609
Dover, . . . . .	.00148	.00185	.00245
Hingham, . . . . .	.00179	.00223	.00296
Hull, . . . . .	.00144	.00180	.00240
Hyde Park, . . . . .	.00721	.01052	.00643
Milton, . . . . .	.01188	.03957	.01284
Nahant, . . . . .	.00208	.02020	.00345
Needham, . . . . .	.00280	.00198	.00263
Revere, . . . . .	.00773	.03093	.00670
Saugus, . . . . .	.00301	.00188	.00249
Stoneham, . . . . .	.00267	.00214	.00222
Swampscott, . . . . .	.00481	.00363	.00482
Wakefield, . . . . .	.00479	.00311	.00414
Watertown, . . . . .	.00708	.00498	.00662
Wellesley, . . . . .	.00621	.00493	.00655
Weston, . . . . .	.00344	.00281	.00374
Westwood, . . . . .	.00071	.00088	.00117
Weymouth, . . . . .	.00214	.00268	.00356
Winchester, . . . . .	.00608	.01849	.00591
Winthrop, . . . . .	.00559	.00393	.00523
	1.00000	1.00000	1.00000

METROPOLITAN PARKS LOAN.

Sinking Fund.

BONDS ISSUED.	Due Dates.	Sinking Fund Dec. 1, 1911.	Amount of Dec. 1, 1911, Sinking Fund at Maturity of Loan, Accumulations reckoned at 3 Per Cent.	Balance to be provided for.	Sinking Fund Re- quirements for 1912.
\$125,000	Jan. 1, 1928	\$24,551 68	\$39,536 17	\$85,463 83	\$4,233 00
1,309,000	Jan. 1, 1934	394,449 99	759,447 58	540,552 42	17,657 00
2,000,000	Jan. 1, 1936	555,333 79	1,134,812 52	865,187 48	25,061 00
1,400,000	Jan. 1, 1937	372,206 70	783,585 32	616,414 68	16,858 00
1,000,000	July 1, 1938	253,003 24	556,962 96	443,037 04	11,457 00
505,000	July 1, 1939	120,942 73	274,291 33	230,708 67	5,649 00
650,000	Jan. 1, 1941	186,544 20	442,397 02	207,602 98	4,576 00
125,000	Jan. 1, 1943	19,254 16	48,463 99	76,536 01	1,525 00
340,000	July 1, 1943	56,748 50	144,982 32	195,017 68	3,886 00
300,000	Jan. 1, 1944	38,606 55	100,112 36	199,887 64	3,793 00
370,000	Jan. 1, 1945	38,483 04	102,808 29	267,191 71	4,832 00
300,000	Jan. 1, 1946	31,456 29	86,576 17	213,423 83	3,682 00
300,000	Jan. 1, 1947	22,949 74	65,072 98	234,927 02	3,869 00
70,000	Jan. 1, 1949	3,698 78	11,131 29	58,868 71	886 00
\$8,785,000	-	\$2,118,229 39	\$4,550,180 30	\$4,234,819 70	\$107,964 00

Nantasket.

\$600,000	July 1, 1939	\$145,513 39	\$330,016 21	\$269,983 79	\$6,611 00
100,000	Jan. 1, 1941	18,684 36	44,310 71	55,689 29	1,228 00
\$700,000	-	\$164,197 75	\$374,326 92	\$325,673 08	\$7,839 00

METROPOLITAN PARKS LOANS, SERIES TWO.

Sinking Fund.

BONDS ISSUED.	Due Dates.	Sinking Fund Dec. 1, 1911.	Amount of Dec. 1, 1911, Sinking Fund at Maturity of Loan, Accumulations reckoned at 3 Per Cent.	Balance to be provided for.	Sinking Fund Re- quirements for 1912.
\$250,000	Jan., 1934	\$80,533 00	\$155,052 84	\$94,947 16	\$3,102 00
300,000	Jan., 1936	88,492 01	180,831 50	119,168 50	3,452 00
500,000	Jan., 1937	141,252 58	297,370 92	202,629 08	5,542 00
50,000	July, 1938	13,420 12	29,543 14	20,456 86	529 00
250,000	July, 1939	61,341 58	145,923 10	104,076 90	2,549 00
102,500	July, 1940	36,718 54	85,792 59	76,707 41	1,781 00
225,000	Jan., 1940	41,089 75	94,587 09	130,412 91	2,028 00
55,000	Jan., 1943	8,830 56	22,227 10	32,772 90	653 00
150,000	July, 1943	20,448 88	52,243 25	97,756 75	1,948 00
150,000	Jan., 1944	19,889 83	51,577 20	98,422 80	1,868 00
150,000	Jan., 1945	15,796 97	42,201 96	107,798 04	1,950 00
150,000	Jan., 1946	11,103 22	30,559 05	119,440 95	2,061 00
150,000	Jan., 1947	11,492 33	32,586 00	117,414 00	1,934 00
25,000	Jan., 1949	999 39	3,007 61	21,992 39	331 00
\$2,567,500	-	\$554,408 76	\$1,223,508 35	\$1,343,996 65	\$30,728 00

METROPOLITAN PARKS LOAN, INCLUDING BOULEVARDS AND NANTASKET.

Sinking Fund Requirements.

CITIES AND TOWNS.	Parks.	Boulevards.	Nantasket.	Total.
Arlington, . . .	\$608 92	\$324 79	\$40 37	\$974 08
Belmont, . . .	336 85	182 52	22 97	542 34
Boston, . . .	64,187 84	14,424 65	4,763 60	83,376 09
Braintree, . . .	180 30	63 91	21 72	265 93
Brookline, . . .	5,023 56	1,172 27	397 28	6,593 11
Cambridge, . . .	5,752 32	1,633 81	382 47	7,768 60
Canton, . . .	128 48	45 48	15 44	189 40
Chelsea, . . .	1,391 66	449 55	85 45	1,926 66
Cohasset, . . .	—	—	28 22	28 22
Dedham, . . .	673 70	141 04	47 74	862 48
Dover, . . .	159 79	56 85	19 21	235 85
Everett, . . .	1,476 95	671 10	91 64	2,239 69
Hingham, . . .	193 25	68 52	23 20	284 97
Hull, . . .	155 47	55 31	18 81	229 59
Hyde Park, . . .	778 42	323 26	50 40	1,152 08
Lynn, . . .	3,984 95	762 05	248 34	4,995 34
Malden, . . .	2,305 03	812 45	150 90	3,268 38
Medford, . . .	1,232 95	1,319 46	81 37	2,633 78
Melrose, . . .	860 47	406 23	57 23	1,323 93
Milton, . . .	1,282 61	1,215 91	100 65	2,599 17
Nahant, . . .	224 56	620 71	27 04	872 31
Needham, . . .	302 30	60 84	20 62	383 76
Newton, . . .	3,670 78	799 54	270 99	4,741 31
Quincy, . . .	1,595 71	1,349 88	102 61	3,048 20
Revere, . . .	834 56	950 42	52 52	1,837 50
Saugus, . . .	324 97	57 77	19 52	402 26
Somerville, . . .	3,499 11	900 02	219 26	4,618 39
Stoneham, . . .	288 26	65 76	17 40	371 42
Swampscott, . . .	519 31	111 54	37 78	668 63
Wakefield, . . .	517 15	95 56	32 45	645 16
Waltham, . . .	1,458 59	282 39	95 79	1,836 77
Watertown, . . .	764 38	153 03	51 89	969 30
Wellesley, . . .	670 46	151 49	51 35	873 30
Weston, . . .	371 40	86 35	29 32	487 07
Westwood, . . .	76 65	27 04	9 17	112 86
Weymouth, . . .	231 04	82 35	27 91	341 30
Winchester, . . .	656 42	568 16	46 33	1,270 91
Winthrop, . . .	603 52	120 76	41 00	765 28
Woburn, . . .	641 31	115 23	39 04	795 58
	\$107,964 00	\$30,728 00	\$7,839 00	\$146,531 00

METROPOLITAN PARKS LOAN, INCLUDING BOULEVARDS AND NANTASKET.

Interest Requirements.

CITIES AND TOWNS.	Parks.	Boulevards.	Nantasket.	Total.
Arlington, . . .	\$1,764 54	\$946 84	\$108 15	\$2,819 53
Belmont, . . .	976 13	532 09	61 53	1,569 75
Boston, . . .	186,005 26	42,050 56	12,761 28	240,817 10
Braintree, . . .	522 48	186 32	58 17	766 97
Brookline, . . .	14,557 42	3,417 40	1,064 28	19,039 10
Cambridge, . . .	16,669 24	4,762 86	1,024 59	22,456 69
Canton, . . .	372 30	132 57	41 37	546 24
Chelsea, . . .	4,032 78	1,310 52	228 90	5,572 20
Cohasset, . . .	—	—	75 60	75 60
Dedham, . . .	1,952 25	411 16	127 89	2,491 30
Dover, . . .	463 03	165 72	51 45	680 20
Everett, . . .	4,279 94	1,956 38	245 49	6,481 81
Hingham, . . .	560 02	199 76	62 16	821 94
Hull, . . .	450 52	161 24	50 40	662 16
Hyde Park, . . .	2,255 73	942 36	135 03	3,333 12
Lynn, . . .	11,547 70	2,221 53	665 28	14,434 51
Malden, . . .	6,679 58	2,368 44	404 25	9,452 27
Medford, . . .	3,572 87	3,846 48	217 98	7,637 33
Melrose, . . .	2,493 50	1,184 22	153 30	3,831 02
Milton, . . .	3,716 79	3,544 60	269 64	7,531 03
Nahant, . . .	650 75	1,809 47	72 45	2,532 67
Needham, . . .	876 01	177 36	55 23	1,108 60
Newton, . . .	10,637 28	2,330 82	725 97	13,694 07
Quincy, . . .	4,624 09	3,935 16	274 89	8,834 14
Revere, . . .	2,418 42	2,770 64	140 70	5,329 76
Saugus, . . .	941 71	168 41	52 29	1,162 41
Somerville, . . .	10,139 83	2,623 74	587 37	13,350 94
Stoneham, . . .	835 34	191 70	46 62	1,073 66
Swampscott, . . .	1,504 86	325 17	101 22	1,931 25
Wakefield, . . .	1,498 60	278 59	86 94	1,864 13
Waltham, . . .	4,226 75	823 22	256 62	5,306 59
Watertown, . . .	2,215 06	446 10	139 02	2,800 18
Wellesley, . . .	1,942 87	441 62	137 55	2,522 04
Weston, . . .	1,076 24	251 71	78 54	1,406 49
Westwood, . . .	222 13	78 83	24 57	325 53
Weymouth, . . .	669 52	240 07	74 76	984 35
Winchester, . . .	1,902 20	1,656 29	124 11	3,682 60
Winthrop, . . .	1,748 89	352 04	109 83	2,210 76
Woburn, . . .	1,858 39	335 92	104 58	2,298 89
	\$312,861 02	\$89,577 91	\$21,000 00	\$423,438 93

METROPOLITAN PARKS LOAN, INCLUDING BOULEVARDS AND NANTASKET.

Maintenance Requirements.

CITIES AND TOWNS.	Parks.	Boulevards.	Nantasket.	Total.
Arlington, . . .	\$2,026 16	\$945 83	\$134 13	\$3,106 12
Belmont, . . .	1,120 85	531 53	76 31	1,728 69
Boston, . . .	213,583 65	42,005 89	15,827 30	271,416 84
Braintree, . . .	599 94	186 13	72 15	858 22
Brookline, . . .	16,715 80	3,413 77	1,319 98	21,449 55
Cambridge, . . .	19,140 72	4,757 80	1,270 76	25,169 28
Canton, . . .	427 50	132 43	51 31	611 24
Chelsea, . . .	4,630 71	1,309 13	283 90	6,223 74
Cohasset, . . .	—	—	93 76	93 76
Dedham, . . .	2,241 71	410 73	158 62	2,811 06
Dover, . . .	531 68	165 54	63 81	761 03
Everett, . . .	4,914 51	1,954 30	304 47	7,173 28
Hingham, . . .	643 06	199 55	77 09	919 70
Hull, . . .	517 32	161 07	62 51	740 90
Hyde Park, . . .	2,590 17	941 36	167 47	3,699 00
Lynn, . . .	13,259 84	2,219 17	825 12	16,304 13
Malden, . . .	7,669 94	2,365 93	501 38	10,537 25
Medford, . . .	4,102 61	3,842 39	270 35	8,215 35
Melrose, . . .	2,863 21	1,182 96	190 13	4,236 30
Milton, . . .	4,267 87	3,540 83	334 42	8,143 12
Nahant, . . .	747 24	1,807 55	89 86	2,644 65
Needham, . . .	1,005 90	177 18	68 50	1,251 58
Newton, . . .	12,214 43	2,328 34	900 39	15,443 16
Quincy, . . .	5,309 68	3,930 98	340 94	9,581 60
Revere, . . .	2,776 99	2,767 70	174 50	5,719 19
Saugus, . . .	1,081 34	168 23	64 85	1,314 42
Somerville, . . .	11,643 22	2,620 95	728 49	14,992 66
Stoneham, . . .	959 19	191 49	57 82	1,208 50
Swampscott, . . .	1,727 98	324 82	125 54	2,178 34
Wakefield, . . .	1,720 80	278 29	107 83	2,106 92
Waltham, . . .	4,853 43	822 35	318 28	5,994 06
Watertown, . . .	2,543 48	445 62	172 42	3,161 52
Wellesley, . . .	2,230 93	441 15	170 60	2,842 68
Weston, . . .	1,235 81	251 45	97 41	1,584 67
Westwood, . . .	255 07	78 74	30 47	364 28
Weymouth, . . .	768 80	239 81	92 72	1,101 33
Winchester, . . .	2,184 23	1,654 54	153 93	3,992 70
Winthrop, . . .	2,008 19	351 67	136 22	2,496 08
Woburn, . . .	2,133 93	335 56	129 71	2,599 20
	\$359,247 89	\$89,482 76	\$26,045 45	\$474,776 10

Wellington Bridge, Special Assessment.

	Maintenance.	Per Cent.
Malden,	\$590 76	14
Medford,	801 75	19
Reading,	42 20	1
Somerville,	527 47	12½
Stoneham,	147 69	3½
	\$2,109 87	50

Alewife Brook (Chapter 529 of the Acts of 1906, as amended by Chapter 529 of the Acts of 1907).

	Assessment.	Interest.	Total.
Arlington,	\$1,500 00	\$997 50	\$2,497 50
Belmont,	1,062 50	706 56	1,769 06
Cambridge,	2,937 50	1,953 44	4,890 94
Somerville,	750 00	498 75	1,248 75
	\$6,250 00	\$4,156 25	\$10,406 25

STATEMENT III.

METROPOLITAN SEWERAGE DISTRICT.

Debt, North System.

The gross metropolitan sewerage, north system, debt, April 1, 1912,
was \$6,625,000 00
showing an increase for the past year of \$62,000.

The sinking fund established for payment of same, April 1, 1912,
amounted to 1,419,939 61
an increase for the year of \$159,131.79.

The net metropolitan sewerage, north system, debt, April 1, 1912,
was \$5,205,060 39
a decrease for the year of \$97,131.79.

Assessments, North System.

Sinking fund,	\$114,321 00
One year's interest on \$6,563,000,	\$202,455 00
Less interest on deposits, 1912,	28 80
	202,426 20
Maintenance,	\$160,500 00
Less balance on hand,	4,278 45
	156,221 55
Total north metropolitan sewerage assessment,	\$472,968 75

CHAPTER 512, ACTS OF 1911.

AN ACT TO PROVIDE FOR AN OUTLET FOR THE SEWAGE OF THE CITIES
OF EVERETT AND MALDEN INTO THE NORTH METROPOLITAN SYSTEM.

Bonds issued,		\$62,000 00	
1912 serial payment,	\$3,000 00		
Less premium,	216 38		
			\$2,783 62
Interest: —			
1 year on \$59,000,	\$2,065 00		
1 year, 4 mos. on \$2,783.62,	129 90		
Interest on \$62,000 due Mar. 1,			
1912,	1,231 39		
		\$3,426 29	
Less accrued interest,		892 11	
			2,534 18
			<u>\$5,317 80</u>

Everett and Malden, one-half each.

METROPOLITAN SEWERAGE DISTRICT.

Debt, South System.

The gross metropolitan sewerage, south system, debt, April 1, 1912,		
was		\$8,877,912 00
showing no increase for the past year.		

The sinking funds established for payment of same, April 1, 1912,		
amounted to		790,496 63
an increase for the year of \$97,478.98.		

The net metropolitan sewerage, south system, debt, April 1, 1912,		
was		\$8,087,415 37
a decrease for the year of \$97,478.98.		

Assessments, South System.

Sinking fund,		\$70,055 00	
One year's interest on \$8,877,912,	\$298,777 36		
Interest on advances estimated, 1912,	3,000 00		
Interest on advances in 1911, not			
assessed,	160 18		
		\$301,937 54	
American Bank Note Company,	\$35 00		
Less interest on deposit received			
April 11, 1912,	12 47		
		22 53	
			301,960 07
Maintenance,	\$107,550 00		
Less balance on hand,	2,146 48		
			105,403 52
Total south metropolitan sewerage assessment,			\$477,418 59

METROPOLITAN SEWERAGE LOAN.

North System.

CITIES AND TOWNS.	Sinking Fund.	Maintenance.	Interest.	Total.
Arlington,	\$2,823 73	\$3,343 14	\$4,999 93	\$11,166 80
Belmont,	1,611 92	1,655 95	2,854 21	6,122 08
Boston,	17,868 37	29,822 69	31,639 22	79,330 28
Cambridge,	26,808 27	31,291 18	47,468 94	105,568 39
Chelsea,	5,990 42	9,685 74	10,607 13	26,283 29
Everett,	6,424 84	9,998 18	11,376 35	27,799 37
Lexington,	1,120 35	1,187 28	1,983 78	4,291 41
Malden,	10,574 69	13,247 59	18,724 42	42,546 70
Medford,	5,704 62	6,904 99	10,101 07	22,710 68
Melrose,	4,012 67	4,686 65	7,105 16	15,804 48
Revere,	3,681 14	5,436 51	6,518 12	15,635 77
Somerville,	15,364 74	23,058 30	27,206 08	65,629 12
Stoneham,	1,211 80	2,108 99	2,145 72	5,466 51
Wakefield,	2,274 99	3,405 63	4,028 28	9,708 90
Winchester,	3,246 72	2,780 74	5,748 90	11,776 36
Winthrop,	2,869 46	3,030 70	5,080 90	10,981 06
Woburn,	2,732 27	4,577 29	4,837 99	12,147 55
	\$114,321 00	\$156,221 55	\$202,426 20	\$472,968 75

METROPOLITAN SEWERAGE LOAN, NORTH SYSTEM, SINKING FUND.

BONDS ISSUED AND AMOUNTS ALREADY PROVIDED FOR.	Due Date.	Sinking Fund Dec. 1, 1911.	Amount of Dec. 1, 1911, Sinking Fund at Ma- turity of Loan, Accu- mulations at 3 Per Cent.	Balance.	Portion of Balance to be provided for this Year.	Sinking Fund Require- ments for 1912.
\$5,330,000 (1,909,916)	Jan., 1930 Sunk.	\$4,278,083 79	\$2,184,423 50	\$5,055,492 50	\$168,516 42	\$101,578 00
465,000 (149,124)	Jan., 1930 Sunk.	95,648 60	163,476 80	450,647 20	15,021 58	9,055 00
250,000 (28,125)	July, 1943 Sunk.	14,999 75	30,657 23	247,467 77	3,093 35	1,248 00
50,000 (5,625)	Jan., 1943 Sunk.	2,419 62	6,090 34	49,534 66	619 18	254 00
55,000 (5,729)	July, 1943 Sunk.	4,204 66	10,742 16	49,986 84	1,041 40	420 00
300,000 (11,250)	Jan., 1949 Sunk.	7,587 97	22,835 62	288,414 38	3,605 17	1,235 00
113,000 (3,138)	Jan., 1949 Sunk.	1,482 27	4,460 82	111,677 18	1,551 07	531 00
\$6,563,000 (2,112,907)	- Sunk.	\$1,401,426 66	\$2,422,686 47	\$6,253,220 53	\$193,448 17	\$144,321 00

METROPOLITAN SEWERAGE LOAN, NORTH SYSTEM.

Amounts provided for and to be provided for.

BONDS ISSUED.	Due Dates.	Amount provided for.	Amount to be provided for.	1912.
\$5,330,000	1930	$\frac{1}{3} + \frac{1}{3} + \frac{2}{30}$	$\frac{8}{30} + \frac{2}{3}$	$\frac{1}{30}$
265,000	1930	$\frac{2}{40} + \frac{2}{30}$	$\frac{8}{30} + \frac{2}{3}$	$\frac{1}{30}$
200,000	1930	$\frac{4}{40} + \frac{2}{30}$	$\frac{8}{30} + \frac{11}{40}$	$\frac{1}{30}$
300,000	1943	$\frac{9}{80}$	$\frac{1}{80} + \frac{1}{6} + \frac{1}{3} + \frac{2}{3}$	$\frac{1}{80}$
55,000	1943	$\frac{5}{48}$	$\frac{1}{48} + \frac{1}{6} + \frac{1}{3} + \frac{2}{3}$	$\frac{1}{48}$
300,000	1949	$\frac{3}{80}$	$\frac{7}{80} + \frac{1}{6} + \frac{1}{3} + \frac{2}{3}$	$\frac{1}{80}$
113,000	1949	$\frac{2}{72}$	$\frac{7}{72} + \frac{1}{6} + \frac{1}{3} + \frac{2}{3}$	$\frac{1}{72}$

NORTH METROPOLITAN SYSTEM.

Ratios of Contribution on the Basis of the Valuations of 1910 and the Census Returns of 1910. Assessment made by the Metropolitan Water and Sewerage Board.

CITY OR TOWN.	State Valuation, Acts 1910, Chapter 357.	Proportion for Interest and Sinking Funds (Per Cent.).	Population State Census 1910.	Proportion for Maintenance and Operation (Per Cent.).
Arlington, . . .	\$12,040,688	2.47	11,187	2.14
Belmont, . . .	6,854,544	1.41	5,542	1.06
Boston, . . .	76,051,300	15.63	99,932	19.09
Charlestown, . . .				
East Boston, . . .	114,094,902	23.45	104,839	20.03
Cambridge, . . .	25,493,242	5.24	32,452	6.20
Chelsea, . . .	27,342,393	5.62	33,484	6.40
Everett, . . .	4,795,170 ¹	.98	4,000 ²	.76
Lexington, . . .	45,004,522	9.25	44,404	8.48
Malden, . . .	24,264,078	4.99	23,150	4.42
Medford, . . .	17,063,560	3.51	15,715	3.00
Melrose, . . .	15,660,186	3.22	18,219	3.48
Revere, . . .	65,411,419	13.44	77,236	14.76
Somerville, . . .	5,182,026	1.06	7,090	1.35
Stoneham, . . .	9,671,533	1.99	11,404	2.18
Wakefield, . . .	13,826,399	2.84	9,309	1.78
Winchester, . . .	12,219,155	2.51	10,132	1.94
Winthrop, . . .	11,638,886	2.39	15,308	2.93
Woburn, . . .				
	\$486,614,003	100.00	523,403	100.00

¹ 55.49 per cent. of the town valuation derived from figures certified by the clerk of the board of assessors.

² Population of Lexington sewerage district, certified by the clerk of the board of assessors.

METROPOLITAN SEWERAGE LOAN.

South System.

CITIES AND TOWNS.	Sinking Fund.	Maintenance.	Interest.	Total Assessment.
Boston,	\$28,932 71	\$52,965 27	\$124,709 51	\$206,607 49
Brookline,	14,641 50	8,390 12	63,109 66	86,141 28
Dedham,	1,695 33	2,803 73	7,307 43	11,806 49
Hyde Park,	1,856 46	4,679 92	8,001 94	14,538 32
Milton,	3,712 92	2,392 66	16,003 88	22,109 46
Newton,	9,989 84	12,016 00	43,059 51	65,065 35
Quincy,	3,782 97	9,855 23	16,305 84	29,944 04
Waltham,	3,530 77	8,411 20	15,218 79	27,160 76
Watertown,	1,912 50	3,889 39	8,243 51	14,045 40
	\$70,055 00	\$105,403 52	\$301,960 07	\$477,418 59

METROPOLITAN SEWERAGE LOAN, SOUTH SYSTEM, SINKING FUND.

BONDS ISSUED AND AMOUNTS ALREADY PROVIDED FOR.	Due Date.	Sinking Fund Dec. 1, 1911.	Amount of Dec. 1, 1911, Sinking Fund at Ma- turity of Loan, Accu- mulations at 3 Per Cent.	Balance.	Portion of Balance to be provided for this Year.	Sinking Fund Require- ments for 1912.
\$800,000 (286,666)	Jan., 1930 Sunk.	\$189,418 41	\$323,742 49	\$762,923 51	\$25,430 79	\$15,330 00
839,000 (202,753)	Mar., 1935 Sunk.	114,782 11	227,673 32	814,084 68	13,568 08	7,048 00
65,000 (14,625)	Mar., 1936 Sunk.	7,950 72	16,247 12	63,377 88	1,056 29	533 00
1,024,912 (179,350)	July, 1939 Sunk.	88,056 60	199,707 43	1,004,563 57	16,742 72	7,606 00
3,586,000 (567,783)	July, 1940 Sunk.	265,255 35	619,767 15	3,534,015 85	58,900 26	25,971 00
996,000 (112,050)	Jan., 1943 Sunk.	47,987 13	120,786 78	987,263 22	12,340 79	5,052 00
392,000 (38,111)	July, 1944 Sunk.	15,110 18	39,770 62	390,340 38	5,421 39	2,123 00
175,000 (12,152)	Jan., 1946 Sunk.	10,749 89	29,586 59	157,565 41	2,188 41	820 00
1,000,000 (62,500)	Jan., 1946 Sunk.	39,916 93	109,862 13	952,637 87	14,884 97	5,572 00
\$8,877,912 (1,476,004)	- Sunk.	\$779,227 32	\$1,687,143 63	\$8,666,772 37	\$150,533 70	\$70,055 00

METROPOLITAN SEWERAGE LOAN, SOUTH SYSTEM.

Amounts provided for and to be provided for.

BONDS ISSUED.	Due Dates.	Amount provided for.	Amount to be provided for.	1912.
\$800,000	1930	$\frac{1}{8} + \frac{1}{6} + \frac{2}{30}$	$\frac{8}{30} + \frac{1}{3}$	$\frac{1}{30}$
839,000	1935	$\frac{1}{8} + \frac{7}{60}$	$\frac{3}{60} + \frac{1}{3} + \frac{1}{3}$	$\frac{1}{60}$
65,000	1936	$\frac{1}{8} + \frac{6}{60}$	$\frac{4}{60} + \frac{1}{3} + \frac{1}{3}$	$\frac{1}{60}$
1,024,912	1939	$\frac{1}{8} + \frac{3}{60}$	$\frac{7}{60} + \frac{1}{3} + \frac{1}{3}$	$\frac{1}{60}$
3,586,000	1940	$\frac{1}{8} + \frac{2}{60}$	$\frac{8}{60} + \frac{1}{3} + \frac{1}{3}$	$\frac{1}{60}$
996,000	1943	$\frac{9}{80}$	$\frac{1}{80} + \frac{1}{6} + \frac{1}{3} + \frac{1}{3}$	$\frac{1}{80}$
392,000	1944	$\frac{7}{72}$	$\frac{7}{72} + \frac{1}{6} + \frac{1}{3} + \frac{1}{3}$	$\frac{1}{72}$
175,000	1946	$\frac{5}{72}$	$\frac{4}{72} + \frac{1}{6} + \frac{1}{3} + \frac{1}{3}$	$\frac{1}{72}$
1,000,000	1946	$\frac{4}{64}$	$\frac{6}{64} + \frac{1}{6} + \frac{1}{3} + \frac{1}{3}$	$\frac{1}{64}$

SOUTH METROPOLITAN SYSTEM.

Ratios of Contribution on the Basis of the Valuations of 1910 and the Census Returns of 1910. Assessment made by the Metropolitan Water and Sewerage Board.

CITY OR TOWN.	State Valuation, Acts 1910, Chapter 357.	Proportion for Interest and Sinking Funds (Per Cent.).	Population State Census 1910.	Proportion for Maintenance and Operation (Per Cent.).
Waltham, . . .	\$28,563,213	5.04	27,834	7.98
Watertown, . . .	15,479,139	2.73	12,875	3.69
Newton, . . .	80,837,081	14.26	39,806	11.40
Boston, . . .	234,192,300	41.30	175,431	50.25
Brighton District, . .	36,092,700	—	26,575	—
Back Bay District, . .	59,454,800	—	18,048	—
Roxbury District, . .	46,642,000	—	45,957	—
West Roxbury District, .	39,895,000	—	28,608	—
Dorchester District, . .	52,107,800	—	56,243	—
Brookline, . . .	118,513,924	20.90	27,792	7.96
Dedham, . . .	13,732,094 ¹	2.42	9,284	2.66
Hyde Park, . . .	15,041,961	2.65	15,507	4.44
Milton, . . .	30,027,548	5.30	7,924	2.27
Quincy, . . .	30,606,390	5.40	32,642	9.35
	\$566,993,650	100.00	\$349,095	100.00

¹ 96.38 per cent. of the town valuation, derived from figures certified by the clerk of the board of assessors.

METROPOLITAN PARKS AND SEWERAGE LOANS.

Comparison of Assessments, 1911 and 1912.

CITIES AND TOWNS.	PARKS.		SEWER.	
	1911.	1912.	1911.	1912.
Arlington, . . .	\$11,030 02	\$9,412 45	\$10,948 34	\$11,166 80
Belmont, . . .	6,124 65	5,618 26	6,007 21	6,122 08
Boston, . . .	601,526 77	597,213 86	279,989 52	285,937 77
Braintree, . . .	1,218 19	1,895 63	—	—
Brookline, . . .	46,748 86	47,207 28	\$4,798 49	\$6,141 28
Cambridge, . . .	62,400 39	60,429 24	103,511 80	105,568 39
Canton, . . .	624 23	1,350 09	—	—
Chelsea, . . .	12,921 49	13,757 37	25,718 84	26,283 29
Cohasset, . . .	195 64	197 58	—	—
Dedham, . . .	7,099 21	6,181 67	11,571 71	11,806 49
Dover, . . .	2,982 96	1,681 07	—	—
Everett, . . .	15,786 81	15,931 68	27,209 17	30,458 27
Hingham, . . .	1,662 11	2,031 44	—	—
Hull, . . .	1,149 76	1,636 53	—	—
Hyde Park, . . .	10,560 35	8,203 65	14,211 55	14,538 32
Lexington, . . .	—	—	4,210 15	4,291 41
Lynn, . . .	47,010 57	35,833 55	—	—
Malden, . . .	29,484 24	23,906 26	41,700 23	45,205 60
Medford, . . .	18,024 98	19,319 02	22,263 45	22,710 68
Melrose, . . .	11,634 39	9,412 75	15,496 52	15,804 48
Milton, . . .	18,171 09	18,305 37	21,757 47	22,109 46
Nahant, . . .	7,395 71	6,055 24	—	—
Needham, . . .	3,636 02	2,751 49	—	—
Newton, . . .	36,152 80	33,970 26	63,876 87	65,065 35
Quincy, . . .	30,237 95	21,503 81	29,264 37	29,944 04
Reading, . . .	65 12	42 20	—	—
Revere, . . .	10,113 34	12,907 30	15,308 99	15,635 77
Saugus, . . .	3,946 40	2,887 21	—	—
Somerville, . . .	39,512 91	34,825 64	64,250 86	65,629 12
Stoneham, . . .	3,191 86	2,808 47	5,346 50	5,466 51
Swampscott, . . .	4,482 64	4,791 20	—	—
Wakefield, . . .	5,479 53	4,629 13	9,505 15	9,708 90
Waltham, . . .	15,922 90	13,173 87	26,560 46	27,160 76
Watertown, . . .	8,058 16	6,950 10	13,749 10	14,045 40
Wellesley, . . .	7,656 71	6,254 77	—	—
Weston, . . .	3,755 71	3,487 51	—	—
Westwood, . . .	522 44	804 59	—	—
Weymouth, . . .	1,389 78	2,432 75	—	—
Winchester, . . .	8,862 83	8,962 61	11,566 58	11,776 36
Winthrop, . . .	7,146 30	5,487 20	10,773 33	10,981 06
Woburn, . . .	6,212 61	5,709 70	11,883 88	12,147 55
	\$1,110,098 43	\$1,059,959 80	\$931,480 54	\$955,705 14 ¹

¹ Includes \$5,317.80 special sewerage for Everett and Malden.

STATEMENT IV.

CHARLES RIVER BASIN.

Total Charles River Basin debt, April 1, 1912, was . . . \$4,417,000 00
a decrease for the year of \$8,000.

The sinking funds established for payment of the same, April 1,
1912, amounted to . . . 488,453 01
an increase for the year of \$151,768.03

The net Charles River Basin loan debt, April 1, 1912, . . . \$3,928,546 99
a decrease for the year of \$159,768.03.

TOTAL CHARLES RIVER BASIN LOAN.

ASSESSMENT FOR 1912.

District.

Serial bond, . . . \$8,000 00

Interest:—

One year on \$4,417,000, . . . \$152,470 00

Six months on \$8,000, . . . 140 00

\$152,610 00

Less balance of interest on de-

posit, . . . \$728 48

Less interest on bridge, . . . 41,381 82

42,110 30

110,499 70

Maintenance, . . . \$105,850 00

Less balance on hand, . . . 30,934 11

74,915 89

Total Charles River Basin district assessment, . . . \$193,415 59

Charles River Bridge.

Sinking fund, . . . \$13,887 46

Interest, . . . 41,381 82

\$55,269 28

Boston and Cambridge one-half each.

CHARLES RIVER BASIN LOAN SINKING FUND.

"District."

BONDS ISSUED.	Due Date.	Sinking Fund Dec. 1, 1911.	Amount of Dec. 1, 1911, Sinking Fund at Ma- turity of Loan, Accu- mulations at 3 Per Cent.	Balance.	Sinking Fund Require- ments for 1912.
\$177,272 73	Jan., 1944	\$139,842 39	-	-	-
283,636 36	Jan., 1945	239,875 09	-	-	-
425,454 55	Jan., 1946	232,309 51	-	-	-
\$15,454 55	Jan., 1947	299,571 53	-	-	-
283,636 36	Jan., 1948	73,371 77	-	-	-
602,727 28	Jan., 1949	92,353 00	-	-	-
336,518 17	Jan., 1950	11,892 27	-	-	-
\$2,925,000 00	-	\$1,089,215 56 ¹	\$3,021,396 44	-	-

Boston and Cambridge "Charles River Bridge."

\$72,727 27	Jan., 1944	\$15,334 95	\$39,765 74	\$32,961 53	\$625 35
116,363 64	Jan., 1945	26,304 42	70,272 84	46,090 80	833 43
174,545 45	Jan., 1946	25,474 80	70,113 50	104,431 95	1,801 36
334,545 45	Jan., 1947	32,850 66	93,146 61	241,398 84	3,975 19
116,363 64	Jan., 1948	8,045 87	23,503 26	92,860 38	1,460 95
247,272 72	Jan., 1949	10,127 31	30,477 63	216,795 09	3,260 91
138,181 83	Jan., 1950	1,304 10	4,043 25	134,138 58	1,930 27
\$1,200,000 00	-	\$119,442 11	\$331,322 83	\$868,677 17	\$13,887 46

¹ Includes \$747,633.66 balance of cost of embankment which is due from City of Boston.

CHARLES RIVER BASIN LOAN.

CITY OR TOWN.	Interest Requirement.	Cost of Maintenance.	Serial Bonds.	Total Assessment.
Arlington, . . .	\$510 51	\$387 32	\$36 96	\$934 79
Belmont, . . .	290 62	220 25	21 04	531 91
Boston, . . .	66,323 03	45,688 95	4,801 68	116,813 66
Braintree, . . .	274 04	208 27	19 84	502 15
Brookline, . . .	5,022 21	3,810 97	363 60	9,196 78
Cambridge, . . .	10,498 58	3,668 63	760 08	14,927 29
Canton, . . .	195 58	148 33	14 16	358 07
Chelsea, . . .	1,079 58	819 58	78 16	1,977 32
Dedham, . . .	604 43	458 49	43 76	1,106 68
Dover, . . .	243 10	184 29	17 60	444 99
Everett, . . .	1,158 04	878 76	83 84	2,120 64
Hingham, . . .	293 93	223 25	21 28	538 46
Hull, . . .	237 57	180 55	17 20	435 32
Hyde Park, . . .	637 58	483 96	46 16	1,167 70
Lynn, . . .	3,139 30	2,382 33	227 28	5,748 91
Malden, . . .	1,907 23	1,447 38	138 08	3,492 69
Medford, . . .	1,027 65	779 87	74 40	1,881 92
Melrose, . . .	722 67	548 38	52 32	1,323 37
Milton, . . .	1,272 96	965 67	92 16	2,330 79
Nahant, . . .	342 55	259 96	24 80	627 31
Needham, . . .	260 78	197 78	18 88	477 44
Newton, . . .	3,424 39	2,598 83	247 92	6,271 14
Quincy, . . .	1,296 16	983 65	93 84	2,373 65
Revere, . . .	663 00	503 43	48 00	1,214 43
Saugus, . . .	246 41	187 29	17 84	451 54
Somerville, . . .	2,771 33	2,102 89	200 64	5,074 86
Stoneham, . . .	218 79	166 31	15 84	400 94
Swampscott, . . .	477 36	362 59	34 56	874 51
Wakefield, . . .	409 95	310 90	29 68	750 53
Waltham, . . .	1,209 97	918 47	87 60	2,216 04
Watertown, . . .	655 26	497 44	47 44	1,200 14
Wellesley, . . .	649 74	492 95	47 04	1,189 73
Weston, . . .	370 17	280 93	26 80	677 90
Westwood, . . .	116 02	88 40	8 40	212 82
Weymouth, . . .	352 59	267 45	25 52	645 46
Winchester, . . .	585 65	444 25	42 40	1,072 30
Winthrop, . . .	517 14	392 56	37 44	947 14
Woburn, . . .	493 93	374 58	35 76	904 27
	\$110,499 70	\$74,915 89	\$8,000 00	\$193,415 59

STATEMENT OF THE DEBTS OF THE METRO

		METROPOLITAN PARKS.		METROPOLITAN PARKS, NANTASKET.		METROPOLITAN PARKS BOULEVARDS.	
Bonds outstanding under sinking fund system of payment,		\$8,785,000 00		\$700,000 00		\$2,567,500 00	
Bonds outstanding under serial pay- ment plan,		63,000 00		-		-	
Gross debt,		\$8,848,000 00		\$700,000 00		\$2,567,500 00	
Sinking funds,		2,157,037 06		167,205 85		564,193 22	
Net debt,		\$6,690,962 94		\$532,794 15		\$2,003,306 78	
		Per Cent.		Per Cent.		Per Cent.	
1	Arlington, . . . . .	.00564	\$37,737 03	.00515	\$2,743 89	.01057	\$21,174 95
2	Belmont, . . . . .	.00312	20,875 81	.00293	1,561 09	.00594	11,899 64
3	Boston, . . . . .	.59453	3,977,978 20	.60768	323,768 35	.46943	940,412 30
4	Braintree, . . . . .	.00167	11,173 91	.00277	1,475 84	.00208	4,166 88
5	Brookline, . . . . .	.04653	311,330 51	.05068	27,002 01	.03815	76,426 15
6	Cambridge, . . . . .	.05328	356,494 51	.04879	25,995 03	.05317	106,515 82
7	Canton, . . . . .	.00119	7,962 25	.00197	1,049 60	.00148	2,964 89
8	Chelsea, . . . . .	.01289	86,246 51	.01090	5,807 46	.01463	29,308 38
9	Cohasset,	-	-	.00360	1,918 06	-	-
10	Dedham, . . . . .	.00624	41,751 61	.00609	3,244 72	.00459	9,195 18
11	Dover, . . . . .	.00148	9,902 63	.00245	1,305 34	.00185	3,706 12
12	Everett, . . . . .	.01368	91,532 37	.01169	6,228 36	.02184	43,752 22
13	Hingham, . . . . .	.00179	11,976 82	.00296	1,577 07	.00223	4,467 37
14	Hull, . . . . .	.00144	9,634 99	.00240	1,278 70	.00180	3,605 95
15	Hyde Park, . . . . .	.00721	48,241 84	.00643	3,425 87	.01052	21,074 79
16	Lexington,	-	-	-	-	-	-
17	Lynn, . . . . .	.03691	246,963 44	.03168	16,878 92	.02480	49,682 01
18	Malden, . . . . .	.02135	142,852 06	.01925	10,256 29	.02644	52,967 43
19	Medford, . . . . .	.01142	76,410 80	.01038	5,530 40	.04294	86,021 99
20	Melrose, . . . . .	.00797	53,326 97	.00730	3,889 40	.01322	26,483 72
21	Milton, . . . . .	.01188	79,488 64	.01284	6,841 08	.03957	79,270 85
22	Nahant, . . . . .	.00208	13,917 20	.00345	1,838 14	.02020	40,466 80
23	Needham, . . . . .	.00280	18,734 70	.00263	1,401 25	.00198	3,966 55
24	Newton, . . . . .	.03400	227,492 74	.03457	18,418 69	.02602	52,126 04
25	Quincy, . . . . .	.01478	98,892 43	.01309	6,974 28	.04393	88,005 27
26	Revere, . . . . .	.00773	51,721 14	.00670	3,569 72	.03093	61,962 28
27	Saugus, . . . . .	.00301	20,139 80	.00249	1,326 66	.00188	3,766 22
28	Somerville, . . . . .	.03241	216,854 11	.02797	14,902 25	.02029	58,676 86
29	Stoneham, . . . . .	.00267	17,864 87	.00222	1,182 80	.00214	4,287 08
30	Swampscott, . . . . .	.00481	32,183 53	.00482	2,568 07	.00363	7,272 00
31	Wakefield, . . . . .	.00479	32,049 71	.00414	2,205 77	.00311	6,230 28
32	Waltham, . . . . .	.01351	90,394 91	.01222	6,510 74	.00919	18,410 39
33	Watertown, . . . . .	.00708	47,372 02	.00662	3,527 10	.00498	9,976 47
34	Wellesley, . . . . .	.00621	41,550 88	.00655	3,489 80	.00493	9,876 30
35	Weston, . . . . .	.00344	23,016 91	.00374	1,992 65	.00281	5,629 29
36	Westwood, . . . . .	.00071	4,750 58	.00117	623 37	.00088	1,762 91
37	Weymouth, . . . . .	.00214	14,318 66	.00356	1,896 75	.00268	5,368 86
38	Winchester, . . . . .	.00608	40,681 05	.00591	3,148 81	.01849	37,041 14
39	Winthrop, . . . . .	.00559	37,402 48	.00523	2,786 51	.00393	7,873 00
40	Woburn, . . . . .	.00594	39,744 32	.00498	2,653 31	.00375	7,512 40
		1.00000	\$6,690,962 94	1.00000	\$532,794 15	1.00000	\$2,003,306 78

POLITAN DISTRICT (ACTS OF 1911, CHAPTER 526).

METROPOLITAN SEWERAGE, NORTH SYSTEM.		METROPOLITAN SEWERAGE, SOUTH SYSTEM.		METROPOLITAN WATER.		CHARLES RIVER BASIN.			
\$6,563,000 00		\$8,877,912 00		\$41,398,000 00		\$4,125,000 00		TOTALS.	
62,000 00		-		385,000 00		292,000 00			
\$6,625,000 00		\$8,877,912 00		\$41,783,000 00		\$4,417,000 00			
1,428,796 97		795,854 59		9,114,930 36		491,400 20			
\$5,196,203 03		\$8,082,057 41		\$32,668,069 64		\$3,925,599 80			
Per Cent.		Per Cent.		Per Cent.		Per Cent.			
2.47	\$123,346 21	-	-	.008297096	\$271,050 11	.00462	\$18,136 27	\$179,188 46	1
1.41	73,266 46	-	-	.003752526	122,587 78	.00263	10,324 33	240,515 11	2
15.63	812,166 53	41.30	\$3,337,889 71	.782760918	25,571,288 18	.60021	2,356,184 25	37,319,687 52	3
-	-	-	-	-	-	.00248	9,735 49	26,552 12	4
-	-	20.90	1,689,150 00	-	-	.04545	178,418 51	2,282,327 18	5
23.45	1,218,509 61	-	-	-	-	.09501	372,971 24	2,080,486 21	6
-	-	-	-	-	-	.00177	6,948 31	18,925 05	7
5.24	272,281 04	-	-	.021253059	694,296 41	.00977	38,353 11	1,126,292 91	8
-	-	-	-	-	-	-	-	1,918 06	9
-	-	2.42	195,585 79	-	-	.00547	21,473 03	271,250 33	10
-	-	-	-	-	-	.00220	8,636 32	23,550 41	11
5.62	292,026 61	-	-	.020676568	675,463 56	.01048	41,140 28	1,150,143 40	12
-	-	-	-	-	-	.00266	10,442 09	28,463 35	13
-	-	-	-	-	-	.00215	8,440 04	22,959 68	14
-	-	2.65	214,174 52	-	-	.00577	22,650 71	309,567 73	15
0.98	50,922 79	-	-	.003570080	116,627 62	-	-	167,550 41	16
-	-	-	-	-	-	.02841	111,526 29	425,050 66	17
9.25	480,648 78	-	-	.019145546	625,448 03	.01726	67,755 85	1,379,923 44	18
4.99	259,290 53	-	-	.011849808	387,110 35	.00930	36,508 08	850,872 15	19
3.51	182,386 73	-	-	.009162745	299,329 19	.00654	25,673 42	591,089 43	20
-	-	5.30	423,349 04	.007124959	232,758 66	.01152	45,222 91	871,931 18	21
-	-	-	-	.002526593	82,538 92	.00310	12,169 36	150,930 42	22
-	-	-	-	-	-	.00236	9,264 42	33,366 92	23
-	-	14.26	1,152,501 39	.002740674	89,532 53	.03099	121,654 34	1,661,725 73	24
-	-	5.40	436,431 10	.023829858	778,475 46	.01173	46,047 28	1,454,825 82	25
3.22	167,317 74	-	-	.012194718	398,377 90	.00600	23,553 60	706,502 38	26
-	-	-	-	-	-	.00223	8,754 09	33,986 77	27
13.44	698,369 69	-	-	.047710235	1,558,601 28	.02508	98,454 04	2,645,858 23	28
1.06	55,079 75	-	-	.004376387	142,968 12	.00198	7,772 69	229,155 31	29
-	-	-	-	.004723363	154,503 15	.00432	16,958 59	213,285 34	30
1.99	103,404 44	-	-	-	-	.00371	14,563 98	158,454 18	31
-	-	5.04	407,335 69	-	-	.01095	42,985 32	565,637 05	32
-	-	2.73	220,640 17	.008124304	265,405 33	.00593	23,278 81	570,199 90	33
-	-	-	-	-	-	.00588	23,082 53	77,999 51	34
-	-	-	-	-	-	.00335	13,150 76	43,789 61	35
-	-	-	-	-	-	.00105	4,121 88	11,258 74	36
-	-	-	-	-	-	.00319	12,522 66	34,106 93	37
2.84	147,572 17	-	-	-	-	.00530	20,805 68	249,248 85	38
2.51	130,424 70	-	-	.006180563	201,907 06	.00468	18,371 81	398,765 56	39
2.39	124,189 25	-	-	-	-	.00447	17,547 43	191,646 71	40
1.00000	\$5,196,203 03	1.00000	\$8,082,057 41	1.000000000	\$32,668,069 64	1.00000	\$3,925,599 80	\$59,098,993 75	

SINKING FUND TABLE.

One dollar put in each year, with interest at the rate of 3 per cent. per annum, compounded semi-annually, amounts to the following in from 1 to 50 years, both inclusive:—

To find what amount must be put in each year to sink a given sum at maturity, divide the sum to be sunk by the figures which stand against the number of years and the result will be the amount necessary.

For instance, to find the amount necessary each year, to sink three hundred thousand dollars (\$300,000) in thirty years, divide \$300,000 by 49.19242586.

\$1 for 1 year	=	1.03022500	\$1 each year for 19 years	=	25.93195699
\$1 in 2 years	=	1.06136355	\$1 in 20 years	=	1.81401838
\$1 each year for 2 years	=	2.09158855	\$1 each year for 20 years	=	27.74597537
\$1 in 3 years	=	1.09344326	\$1 in 21 years	=	1.86884708
\$1 each year for 3 years	=	3.18503181	\$1 each year for 21 years	=	29.61482245
\$1 in 4 years	=	1.12649258	\$1 in 22 years	=	1.92533299
\$1 each year for 4 years	=	4.31152439	\$1 each year for 22 years	=	31.54015544
\$1 in 5 years	=	1.16054082	\$1 in 23 years	=	1.98352617
\$1 each year for 5 years	=	5.47206521	\$1 each year for 23 years	=	33.52368161
\$1 in 6 years	=	1.19561816	\$1 in 24 years	=	2.04347825
\$1 each year for 6 years	=	6.66768337	\$1 each year for 24 years	=	35.56715986
\$1 in 7 years	=	1.23175572	\$1 in 25 years	=	2.10524238
\$1 each year for 7 years	=	7.89943909	\$1 each year for 25 years	=	37.67240224
\$1 in 8 years	=	1.26898553	\$1 in 26 years	=	2.16887333
\$1 each year for 8 years	=	9.16842462	\$1 each year for 26 years	=	39.84127557
\$1 in 9 years	=	1.30734062	\$1 in 27 years	=	2.23442753
\$1 each year for 9 years	=	10.47576524	\$1 each year for 27 years	=	42.07570310
\$1 in 10 years	=	1.34685499	\$1 in 28 years	=	2.30196310
\$1 each year for 10 years	=	11.82262023	\$1 each year for 28 years	=	44.37766620
\$1 in 11 years	=	1.38756368	\$1 in 29 years	=	2.37153993
\$1 each year for 11 years	=	13.21018391	\$1 each year for 29 years	=	46.74920613
\$1 in 12 years	=	1.42950279	\$1 in 30 years	=	2.44321973
\$1 each year for 12 years	=	14.63968670	\$1 each year for 30 years	=	49.19242586
\$1 in 13 years	=	1.47270952	\$1 in 31 years	=	2.51706605
\$1 each year for 13 years	=	16.11239622	\$1 each year for 31 years	=	51.70949191
\$1 in 14 years	=	1.51722216	\$1 in 32 years	=	2.59314437
\$1 each year for 14 years	=	17.62961838	\$1 each year for 32 years	=	54.30263628
\$1 in 15 years	=	1.56308020	\$1 in 33 years	=	2.67152215
\$1 each year for 15 years	=	19.19269858	\$1 each year for 33 years	=	56.97415843
\$1 in 16 years	=	1.61032430	\$1 in 34 years	=	2.75226890
\$1 each year for 16 years	=	20.80302288	\$1 each year for 34 years	=	59.72642733
\$1 in 17 years	=	1.65899635	\$1 in 35 years	=	2.83545622
\$1 each year for 17 years	=	22.46201923	\$1 each year for 35 years	=	62.56188355
\$1 in 18 years	=	1.70913951	\$1 in 36 years	=	2.92115788
\$1 each year for 18 years	=	24.17115874	\$1 each year for 36 years	=	65.48304143
\$1 in 19 years	=	1.76079825	\$1 in 37 years	=	3.00944986
\$1 each year for 19 years	=	25.93195699	\$1 each year for 37 years	=	68.49249129

SINKING FUND TABLE — *Concluded.*

\$1 each year for 37 years =	68.49249129	\$1 each year for 44 years =	92.26545692
\$1 in 38 years =	3.10041047	\$1 in 45 years =	3.81894828
\$1 each year for 38 years =	71.59290176	\$1 each year for 45 years =	96.08440520
\$1 in 39 years =	3.19412036	\$1 in 46 years =	3.93437598
\$1 each year for 39 years =	74.78702212	\$1 each year for 46 years =	100.01878118
\$1 in 40 years =	3.29066264	\$1 in 47 years =	4.05329248
\$1 each year for 40 years =	78.07768476	\$1 each year for 47 years =	104.07207366
\$1 in 41 years =	3.39012290	\$1 in 48 years =	4.17580323
\$1 each year for 41 years =	81.46780766	\$1 each year for 48 years =	108.24787689
\$1 in 42 years =	3.49258936	\$1 in 49 years =	4.30201689
\$1 each year for 42 years =	84.96039702	\$1 each year for 49 years =	112.54989378
\$1 in 43 years =	3.59815287	\$1 in 50 years =	4.43204535
\$1 each year for 43 years =	88.55854989	\$1 each year for 50 years =	116.98193913
\$1 in 44 years =	3.70690703		
\$1 each year for 44 years =	92.26545692		

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The Commonwealth of Massachusetts.

1913

ASSESSMENTS

FOR

INTEREST, SINKING FUNDS
AND MAINTENANCE

OF THE

METROPOLITAN DISTRICTS.

ISSUED BY THE

TREASURER AND RECEIVER-GENERAL.



BOSTON:

WRIGHT & POTTER PRINTING CO., STATE PRINTERS,
32 DERNE STREET.

1913.

The Commonwealth of Massachusetts.

TREASURY DEPARTMENT, Sept. 2, 1913.

Computations for the annual assessments for interest, sinking fund, serial bond payments and maintenance for 1913, to be paid by the cities and towns comprising the various metropolitan districts, are printed and sent to the cities and towns in said districts in compliance with chapter 526 of the Acts of the year 1911.

In the tables showing the net debts of the metropolitan district, the sinking funds are given as of June 1, 1913.

ELMER A. STEVENS,
Treasurer and Receiver-General.

Total Assessments for Metropolitan Districts for 1913.

CITIES AND TOWNS.	Metropolitan Water.	Metropolitan Parks and Boulevards.	Metropolitan Sewer, North and South Systems.	Charles River Basin.	Total.
Arlington, . . .	\$20,491 56	\$9,977 80	\$14,547 74 ^N	\$1,169 56	\$46,186 66
Belmont, . . .	9,042 70	5,924 64	8,274 66 ^N	665 42	23,907 42
Boston, . . .	1,842,127 65	653,862 80	{ 85,278 83 ^N 222,170 43 ^S }	144,417 27	2,947,856 98
Braintree, . . .	-	2,071 58	-	628 40	2,699 98
Brookline, . . .	-	51,678 94	93,828 71 ^S	11,506 88	157,014 53
Cambridge, . . .	-	65,521 91	111,944 92 ^N	17,066 17	194,533 00
Canton, . . .	-	1,475 44	-	447 99	1,923 43
Chelsea, . . .	51,547 66	15,033 21	28,507 06 ^N	2,474 13	97,562 06
Cohasset, . . .	-	219 15	-	-	219 15
Dedham, . . .	-	6,769 87	11,049 18 ^S	1,384 60	19,203 65
Dover, . . .	-	1,837 08	-	556 70	2,393 78
Everett, . . .	49,124 16	17,373 30	33,050 51 ^N	2,653 32	102,201 29
Hingham, . . .	-	2,219 99	-	673 79	2,893 78
Hull, . . .	-	1,788 43	-	544 77	2,333 20
Hyde Park, . . .	- ¹	8,951 24	-	1,461 06	10,412 30
Lexington, . . .	8,267 34	-	4,766 98 ^N	-	13,034 32
Lynn, . . .	-	39,254 52	-	7,193 00	46,447 52
Malden, . . .	47,126 88	26,173 29	44,771 69 ^N	4,370 03	122,441 89
Medford, . . .	27,916 12	21,023 92	25,571 59 ^N	2,354 66	76,866 29
Melrose, . . .	22,684 86	10,262 39	17,103 24 ^N	1,655 79	51,706 28
Milton, . . .	16,402 68	19,856 84	22,403 21 ^S	2,916 14	61,578 87
Nahant, . . .	6,181 89	6,516 65	-	784 88	13,483 42
Needham, . . .	-	3,013 72	-	597 32	3,611 04
Newton, . . .	6,680 74	37,197 46	61,282 25 ^S	7,846 47	113,006 92
Quincy, . . .	55,519 02	23,343 79	29,948 08 ^S	2,969 91	111,780 80
Reading, . . .	-	50 50	-	-	50 50
Revere, . . .	28,587 67	13,978 19	18,396 39 ^N	1,519 61	62,481 86
Saugus, . . .	-	3,163 66	-	565 08	3,728 74
Somerville, . . .	116,320 88	38,011 41	69,725 37 ^N	6,349 56	230,407 22
Stoneham, . . .	10,213 41	3,089 37	5,659 41 ^N	501 76	19,463 95
Swampscott, . . .	11,254 35	5,246 64	-	1,094 31	17,595 30
Wakefield, . . .	-	5,071 78	10,751 56 ^N	938 99	16,762 33
Waltham, . . .	-	14,431 32	26,360 93 ^S	2,772 80	43,565 05
Watertown, . . .	19,245 16	7,612 62	14,958 08 ^S	1,501 69	43,317 55
Wellesley, . . .	-	6,848 06	-	1,488 54	8,336 60
Weston, . . .	-	3,817 92	-	848 20	4,666 12
Westwood, . . .	-	879 30	-	266 41	1,145 71
Weymouth, . . .	-	2,658 50	-	807 59	3,466 09
Winchester, . . .	-	9,728 40	13,871 08 ^N	1,341 59	24,941 07
Winthrop, . . .	15,909 87	6,010 27	13,830 69 ^N	1,185 09	36,935 92
Woburn, . . .	-	6,256 20	12,810 93 ^N	1,131 33	20,198 46
	\$2,364,644 60	\$1,158,202 10 ²	\$1,000,863 52 ²	\$238,650 81	\$4,762,361 03

N, North System.

S, South System.

¹ Included in Boston.² Includes \$12,712.74 special assessments for Wellington bridge and Alewife Brook.³ Includes \$5,100 special sewerage assessment on Everett and Malden.

STATEMENT I.

METROPOLITAN WATER DISTRICT.

Total Water Debt, April 1, 1913.

Gross water debt, April 1, 1913: —

Bonds outstanding (sinking fund),	\$41,398,000 00	
Bonds outstanding (serial),	375,000 00	
	<hr/>	\$41,773,000 00

a decrease for the year of \$10,000.

Sinking fund April 1, 1913,	9,945,591 14	
	<hr/>	

an increase for the year of \$885,689.17.

Net water debt April 1, 1913,	\$31,827,408 86	
---	-----------------	--

a decrease for the year of \$895,689.17.

Total Water Assessment for 1913.

Sinking fund requirements,	\$506,812 00	
Serial bonds,	10,000 00	

Interest: —

One year on \$41,773,000,	\$1,406,560 00	
Six months on \$10,000,	175 00	
Interest on advances and temporary loans estimated 1913,	25,000 00	
	<hr/>	

	\$1,431,735 00	
Adjustment of interest charges in 1912,	4,526 04	
	<hr/>	1,427,208 96

Maintenance as appropriated by Legislature,	\$447,000 00	
Less balance on hand,	26,376 36	
	<hr/>	420,623 64

Total water assessment for 1913,	\$2,364,644 60	
--	----------------	--

METROPOLITAN WATER LOAN.

Sinking Fund.

BONDS ISSUED.	Due Date.	Sinking Fund Dec. 1, 1912.	Amount of Dec. 1, 1912, Sinking Fund at Maturity of Loan, Accumu- lations reckoned at 3 Per Cent.	Balance to be sunk.	Sinking Fund Re- quirements for 1913.
\$13,000,000	July, 1935	\$4,254,510 26	\$8,314,219 17	\$4,685,780 83	\$153,056 00
4,000,000	Jan., 1938	1,096,031 43	2,307,411 82	1,692,588 18	46,287 00
4,000,000	July, 1939	929,827 91	2,046,929 13	1,953,070 87	50,503 00
10,000,000	Jan., 1941	1,959,252 03	4,510,125 88	5,489,874 12	127,447 00
3,500,000	Jan., 1942	643,382 65	1,525,807 64	1,974,192 36	43,506 00
2,000,000	Jan., 1943	318,529 24	778,236 92	1,221,763 08	25,587 00
2,000,000	Jan., 1944	284,768 98	716,782 33	1,283,217 67	25,566 00
650,000	Jan., 1945	115,791 53	300,264 15	349,735 85	6,635 00
1,350,000	Jan., 1946	159,541 39	426,218 36	923,781 64	16,704 00
398,000	Jan., 1949	26,976 40	78,802 32	319,197 68	5,022 00
500,000	Jan., 1950	22,569 47	67,921 69	432,078 31	6,499 00
\$41,398,000	-	\$9,811,181 29	\$21,072,719 41	\$20,325,280 59	\$506,812 00

Computations for determining the Assessment for 1913. (See Chapter 488, Acts of 1895, as amended in 1901, 1904 and 1906.)

[The proportion to be paid by each city and town is based as follows: one-third in proportion to their respective valuations for the preceding year, and the remaining two-thirds in proportion to the consumption by the cities and towns, respectively, in the preceding year. The last column shows the total ratio to be paid by each city and town of the whole assessment. To find each town's assessment, multiply the total assessment by the average ratio.]

CITIES AND TOWNS.	Valuation April 1, 1912.	Average Daily Con- sumption (Gallons), 1912.	RATIO OF TOTALS.		Average Ratio, Double Weight to Consump- tion.
			Valuation.	Consump- tion.	
Boston,	\$1,489,611,817	90,037,500	.787,798,695	.774,644,737	.779,029,390
Chelsea,	28,147,960	2,935,500	.014,886,379	.025,255,806	.021,799,330
Everett,	29,742,700	2,707,800	.015,729,776	.023,296,771	.020,774,439
Malden,	40,617,596	2,226,300	.021,481,092	.019,154,148	.019,929,796
Medford,	27,179,600	1,222,900	.014,371,251	.010,521,317	.011,805,628
Melrose,	17,584,600	1,132,100	.009,299,822	.009,740,112	.009,593,349
Newton, ¹	16,026,489	-	.008,475,797	-	.002,825,266
Quincy,	35,475,395	3,003,100	.018,761,579	.025,837,408	.023,478,799
Somerville,	69,916,340	6,127,500	.036,976,077	.055,299,503	.049,191,695
Arlington,	14,164,626	1,075,500	.007,491,129	.009,253,149	.008,665,809
Belmont,	7,555,625	434,500	.003,995,881	.003,738,255	.003,824,130
Lexington,	8,223,665	356,800	.004,349,182	.003,069,757	.003,496,232
Milton,	28,178,814	343,300	.014,902,697	.002,953,609	.006,936,638
Nahant,	9,662,998	158,800	.005,110,390	.001,366,248	.002,614,295
Revere,	19,924,460	1,495,400	.010,537,285	.012,865,792	.012,089,623
Stonham,	5,281,875	590,700	.002,793,381	.005,082,134	.004,319,216
Swampscott,	12,574,824	443,300	.006,650,343	.003,813,966	.004,750,425
Watertown,	16,159,165	922,300	.008,545,964	.007,935,081	.008,138,709
Winthrop,	14,824,820	717,400	.007,840,280	.006,172,207	.006,728,231
	\$1,890,853,369	116,230,700	1,000,000,000	1,000,000,000	1,000,000,000

¹ In accordance with the provisions of the act above referred to, but one-fifth of the total valuation and no consumption has been taken, for at present this city has a sufficient supply, and has not made application for water.

METROPOLITAN WATER LOAN.

Division of the Assessment for 1913.

CITIES AND TOWNS.	Interest.	Sinking Funds.	Cost of Maintenance.	Serial Bonds.	Total Assessment.
Arlington, . . .	\$12,367 92	\$4,391 94	\$3,645 04	\$86 66	\$20,491 56
Belmont, . . .	5,457 83	1,938 11	1,608 52	38 24	9,042 70
Boston, . . .	1,111,837 73	394,821 44	327,678 18	7,790 30	1,842,127 65
Chelsea, . . .	31,112 20	11,048 16	9,169 31	217 99	51,547 66
Everett, . . .	29,649 47	10,528 73	8,738 22	207 74	49,124 16
Lexington, . . .	4,989 85	1,771 93	1,470 60	34 96	8,267 34
Malden, . . .	28,443 98	10,100 66	8,382 94	199 30	47,126 88
Medford, . . .	16,849 10	5,983 23	4,965 73	118 06	27,916 12
Melrose, . . .	13,691 71	4,862 03	4,035 19	95 93	22,684 86
Milton, . . .	9,900 03	3,515 57	2,917 71	69 37	16,402 68
Nahant, . . .	3,731 15	1,324 96	1,099 64	26 14	6,181 89
Newton, . . .	4,032 24	1,431 88	1,188 37	28 25	6,680 74
Quincy, . . .	33,509 15	11,899 34	9,875 74	234 79	55,519 02
Revere, . . .	17,254 42	6,127 17	5,085 18	120 90	28,587 67
Somerville, . . .	70,206 83	24,930 94	20,691 19	491 92	116,320 88
Stoneham, . . .	6,164 42	2,189 03	1,816 77	43 19	10,213 41
Swampscott, . . .	6,792 70	2,412 13	2,001 93	47 59	11,254 35
Watertown, . . .	11,615 64	4,124 80	3,423 33	81 39	19,245 16
Winthrop, . . .	9,602 59	3,409 95	2,830 05	67 28	15,909 87
	\$1,427,208 96	\$506,812 00	\$420,623 64	\$10,000 00	\$2,364,644 60

Comparison of Total Assessments, 1912 and 1913, with Revenue from Water Rates in 1912.

CITIES AND TOWNS.	WATER ASSESSMENTS.		Water Revenue received by Cities and Towns, 1912.
	1912.	1913.	
Arlington,	\$18,996 13	\$20,491 56	\$52,493 25
Belmont,	8,591 38	9,042 70	24,956 04 ¹
Boston,	1,792,123 83	1,842,127 65	2,910,901 97 ²
Chelsea,	48,658 68	51,547 66	128,885 59
Everett,	47,338 81	49,124 16	111,816 58 ¹
Lexington,	8,173 66	8,267 34	24,761 68
Malden,	43,833 54	47,126 88	101,848 36 ²
Medford,	27,130 03	27,916 12	67,769 30 ³
Melrose,	20,978 01	22,684 86	44,621 19 ²
Milton,	16,312 53	16,402 68	53,076 44
Nahant,	5,784 61	6,181 89	11,747 73 ³
Newton,	6,274 75 ⁴	6,680 74 ⁴	—
Quincy,	54,558 24	55,519 02	125,655 29 ²
Revere,	27,919 68	28,587 67	72,229 42 ¹
Somerville,	109,232 14	116,320 88	252,758 49 ²
Stoneham,	10,019 69	10,213 41	26,989 48 ²
Swampscott,	10,814 10	11,254 35	42,506 26 ⁵
Watertown,	18,600 53	19,245 16	60,390 20 ³
Winthrop,	14,150 34	15,909 87	49,979 40
	\$2,289,490 68	\$2,364,644 60	\$4,163,386 67

¹ No money received for hydrant rentals or water used for street watering.

² No money received for hydrant rentals or water used for street watering or other municipal purposes.

³ No money received for hydrant rentals.

⁴ Not taking water from the district.

⁵ No money received for water used for street watering.

Net Water Debt of Cities of the Original Metropolitan Water District.

CITIES.	1912.	1913.	Increase.
Boston,	\$318,503 70	\$676,068 20	\$357,564 50
Somerville,	44,000 00	38,000 00	6,000 00 ¹
Chelsea,	171,320 00	149,687 00	21,633 00 ¹
Everett,	65,114 42	65,845 78	731 36
Malden,	64,333 29	53,583 01	10,750 28 ¹
Medford,	—8,002 30 ²	—8,159 33 ²	157 03 ¹
Melrose,	95,029 45	87,217 01	7,812 44 ¹
	\$750,298 56	\$1,062,241 67	\$311,943 11

¹ Reduction.

² Amount in sinking fund greater than outstanding debt.

STATEMENT II.

METROPOLITAN PARKS DISTRICT.

Gross parks debt, April 1, 1913: —

Bonds outstanding (sinking fund),	\$9,485,000 00	
Bonds outstanding (serial),	135,250 00	
	<hr/>	\$9,620,250 00

an increase for the year of \$72,250.

Sinking fund, April 1, 1913,	2,527,841 44	
	<hr/>	

an increase for the year of \$214,560.16.

Net parks debt, April 1, 1913,	\$7,092,408 56	
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a decrease for the year of \$142,310.16.

BOULEVARDS.

Gross parks, series two (boulevards) debt (one-half), April 1, 1913: —

Bonds outstanding (sinking fund),	\$2,567,500 00	
Bonds outstanding (serial),	100,000 00	
	<hr/>	\$2,667,500 00

an increase for the year of \$100,000.

Sinking fund, April 1, 1913,	622,460 89	
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an increase for the year of \$62,424.12.

Net parks, series two (boulevards) debt, April 1, 1913,	\$2,045,039 11	
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an increase for the year of \$37,575.88.

METROPOLITAN PARKS LOAN.

The total parks assessment for 1913 is made up as follows: —

Parks sinking fund,	\$106,699 00	
Parks, series two, sinking fund,	30,125 00	
Nantasket sinking fund,	7,686 00	
Parks, serial bonds,	\$7,750 00	
Less premium,	1,440 00	
	<hr/>	6,310 00
Parks, series two, serial bonds,	\$2,500 00	
Less premium,	1,920 00	
	<hr/>	580 00

Parks interest: —

One year on \$8,845,250, . . . \$303,333 75

Six months on \$77,750, . . . 1,548 13

Interest from Aug. 14, 1912, to

Feb. 3, 1913, on \$25,000, . . . 413 19

<i>Amounts carried forward,</i>	\$305,295 07		\$151,400 00
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<i>Amounts brought forward,</i>	\$305,295 07		\$151,400 00
Interest on advances and temporary loans estimated, 1913, .	8,000 00		
Adjustment of interest charges in 1912,	666 36	\$313,961 43	
Less accrued interest,		241 66	
			313,719 77
Parks, series two, interest: —			
One year on \$2,567,500,	\$87,737 50		
Six months on \$100,000,	2,000 00		
Adjustment of interest charges in 1912,	1,140 40		
Interest on advances and temporary loans, estimated, 1913, .	2,000 00	\$92,877 90	
Less accrued interest,		322 22	
			92,555 68
Nantasket interest: —			
One year on \$700,000,			21,000 00
Parks maintenance,		\$439,570 22	
Less balance on hand,		7,752 86	
			431,817 36
Boulevard maintenance, one-half,		\$104,705 81	
Less balance on hand, one-half,		4,421 53	
			100,284 28
Nantasket maintenance,		\$32,187 03	
No balance to be deducted,		—	
			32,187 03
Wellington bridge maintenance, one-half,		\$2,931 00	
Less balance on hand, one-half,		405 76	
			2,525 24
Total parks assessment for 1913,			\$1,145,489 36

METROPOLITAN PARKS, INCLUDING BOULEVARDS AND NANTASKET.

Total Assessment and Grand Total.

CITIES AND TOWNS.	Total Sinking Fund.	Total Interest.	Total Mainte- nance.	Total Serial Bonds.	Grand Total.
Arlington, . . .	\$959 78	\$2,855 84	\$3,675 46	\$41 72	\$7,532 80
Belmont, . . .	534 36	1,590 12	2,045 15	23 14	4,192 77
Boston, . . .	82,247 97	242,725 50	324,865 58	4,023 75	653,862 80
Braintree, . . .	262 14	774 59	1,023 10	11 75	2,071 58
Brookline, . . .	6,503 50	19,192 66	25,667 05	315 73	51,678 94
Cambridge, . . .	7,661 67	22,660 77	30,044 30	367 04	60,733 78
Canton, . . .	186 69	551 68	728 70	8 37	1,475 44
Chelsea, . . .	1,899 86	5,626 84	7,416 68	89 83	15,033 21
Cohasset, . . .	27 67	75 60	115 88	—	219 15
Dedham, . . .	850 88	2,510 33	3,366 63	42 03	6,769 87
Dover, . . .	232 47	686 98	907 22	10 41	1,837 08
Everett, . . .	2,207 42	6,558 60	8,508 29	98 99	17,373 30
Hingham, . . .	280 91	830 12	1,096 38	12 58	2,219 99
Hull, . . .	226 32	668 76	883 22	10 13	1,788 43
Hyde Park, . . .	1,135 63	3,370 64	4,393 37	51 60	8,951 24
Lynn, . . .	4,928 85	14,540 06	19,538 33	247 28	39,254 52
Malden, . . .	3,222 48	9,549 34	12,544 34	150 06	25,466 22
Medford, . . .	2,591 85	7,775 00	9,600 51	96 97	20,064 33
Melrose, . . .	1,304 75	3,877 24	5,022 44	57 96	10,262 39
Milton, . . .	2,558 33	7,659 06	9,541 53	97 92	19,856 84
Nahant, . . .	856 98	2,594 61	3,040 22	24 84	6,516 65
Needham, . . .	378 62	1,116 90	1,499 38	18 82	3,013 72
Newton, . . .	4,677 33	13,800 74	18,489 76	229 63	37,197 46
Quincy, . . .	3,001 01	8,977 64	11,246 40	118 74	23,343 79
Revere, . . .	1,808 05	5,428 50	6,674 92	66 72	13,978 19
Saugus, . . .	396 94	1,170 59	1,576 05	20 08	3,163 66
Somerville, . . .	4,555 46	13,465 99	17,914 65	221 50	36,157 60
Stoneham, . . .	366 42	1,082 32	1,445 77	18 09	2,912 60
Swampscott, . . .	659 62	1,946 19	2,608 37	32 46	5,246 64
Wakefield, . . .	636 60	1,877 51	2,525 65	32 02	5,071 78
Waltham, . . .	1,812 27	5,345 56	7,182 91	90 58	14,431 32
Watertown, . . .	956 33	2,821 08	3,787 65	47 56	7,612 62
Wellesley, . . .	861 46	2,542 05	3,402 50	42 05	6,848 06
Weston, . . .	480 44	1,417 82	1,896 32	23 34	3,817 92
Westwood, . . .	111 26	328 76	434 29	4 99	879 30
Weymouth, . . .	336 44	994 17	1,312 84	15 05	2,658 50
Winchester, . . .	1,251 16	3,742 88	4,685 28	49 08	9,728 40
Winthrop, . . .	755 04	2,227 26	2,990 43	37 54	6,010 27
Woburn, . . .	785 04	2,315 15	3,116 36	39 65	6,256 20
	\$144,510 00	\$427,275 45	\$566,813 91	\$6,890 00	\$1,145,489 36 ¹

¹ Exclusive of \$12,712.74, special assessments for Wellington bridge and Alewife Brook which are included on page 4.

METROPOLITAN PARKS.

Proportions to be paid annually as found by Commissioners.

CITIES AND TOWNS.	Parks, 1910-1915.	Boulevards, 1910-1915.	Nantasket, 1910-1915.
Boston, . . . . .	.59453	.46943	.60768
Cambridge, . . . . .	.05328	.05317	.04879
Chelsea, . . . . .	.01289	.01463	.01090
Everett, . . . . .	.01368	.02184	.01169
Lynn, . . . . .	.03691	.02480	.03168
Malden, . . . . .	.02135	.02644	.01925
Medford, . . . . .	.01142	.04294	.01038
Melrose, . . . . .	.00797	.01322	.00730
Newton, . . . . .	.03400	.02602	.03457
Quincy, . . . . .	.01478	.04393	.01309
Somerville, . . . . .	.03241	.02929	.02797
Waltham, . . . . .	.01351	.00919	.01222
Woburn, . . . . .	.00594	.00375	.00498
Arlington, . . . . .	.00564	.01057	.00515
Belmont, . . . . .	.00312	.00594	.00293
Braintree, . . . . .	.00167	.00208	.00277
Brookline, . . . . .	.04653	.03815	.05068
Canton, . . . . .	.00119	.00148	.00197
Cohasset,	—	—	.00360
Dedham, . . . . .	.00624	.00459	.00609
Dover, . . . . .	.00148	.00185	.00245
Hingham, . . . . .	.00179	.00223	.00296
Hull, . . . . .	.00144	.00180	.00240
Hyde Park, . . . . .	.00721	.01052	.00643
Milton, . . . . .	.01188	.03957	.01284
Nahant, . . . . .	.00208	.02020	.00345
Needham, . . . . .	.00280	.00198	.00263
Revere, . . . . .	.00773	.03093	.00670
Saugus, . . . . .	.00301	.00188	.00249
Stoneham, . . . . .	.00267	.00214	.00222
Swampscott, . . . . .	.00481	.00363	.00482
Wakefield, . . . . .	.00479	.00311	.00414
Watertown, . . . . .	.00708	.00498	.00662
Wellesley, . . . . .	.00621	.00493	.00655
Weston, . . . . .	.00344	.00281	.00374
Westwood, . . . . .	.00071	.00088	.00117
Weymouth, . . . . .	.00214	.00268	.00356
Winchester, . . . . .	.00608	.01849	.00591
Winthrop, . . . . .	.00559	.00393	.00523
	1.00000	1.00000	1.00000

METROPOLITAN PARKS LOAN.

Sinking Fund.

BONDS ISSUED.	Due Dates.	Sinking Fund Dec. 1, 1912.	Amount of Dec. 1, 1912, Sinking Fund at Maturity of Loan, Accumulations reckoned at 3 Per Cent.	Balance to be provided for.	Sinking Fund Re- quirements for 1913.
\$125,000	Jan., 1928	\$22,331 70	\$34,906 24	\$90,093 76	\$4,836 00
1,300,000	Jan., 1934	428,942 93	801,628 74	498,371 26	17,337 00
2,000,000	Jan., 1936	604,656 77	1,199,352 53	800,647 47	24,605 00
1,400,000	Jan., 1937	405,530 72	823,693 21	571,306 79	16,543 00
1,000,000	July, 1938	275,849 50	589,441 01	410,558 99	11,228 00
505,000	July, 1939	132,124 29	290,859 26	214,140 74	5,537 00
650,000	Jan., 1941	199,473 25	459,180 06	190,819 94	4,430 00
125,000	Jan., 1943	21,779 66	53,212 50	71,787 50	1,503 00
340,000	July, 1943	63,532 85	157,553 08	182,446 92	3,821 00
300,000	Jan., 1944	44,537 27	112,103 25	187,896 75	3,744 00
370,000	Jan., 1945	45,635 87	118,340 40	251,659 60	4,774 00
300,000	Jan., 1946	37,051 76	98,984 60	201,015 40	3,635 00
300,000	Jan., 1947	28,434 83	78,260 30	221,739 70	3,825 00
70,000	Jan., 1949	4,910 00	14,342 89	55,657 11	876 00
\$8,785,000	—	\$2,314,791 40	\$4,836,858 07	\$3,948,141 93	\$106,699 00

Nantasket.

\$600,000	July 1, 1939	\$158,766 06	\$349,508 62	\$250,491 38	\$6,477 00
100,000	Jan. 1, 1941	20,821 23	47,929 70	52,070 30	1,209 00
\$700,000	—	\$179,587 29	\$397,438 32	\$302,561 63	\$7,686 00

METROPOLITAN PARKS LOANS, SERIES TWO.

Sinking Fund.

BONDS ISSUED.	Due Dates.	Sinking Fund Dec. 1, 1912.	Amount of Dec. 1, 1912, Sinking Fund at Maturity of Loan, Accumulations reckoned at 3 Per Cent.	Balance to be provided for.	Sinking Fund Re- quirements for 1913.
\$250,000	Jan., 1934	\$87,855 90	\$164,189 24	\$85,810 76	\$2,985 00
300,000	Jan., 1936	96,582 06	191,573 04	108,426 96	3,332 00
500,000	Jan., 1937	154,197 91	315,100 08	184,899 92	5,356 00
50,000	July, 1938	14,652 50	30,847 06	19,152 94	524 00
250,000	July, 1939	70,262 86	152,391 24	97,608 76	2,524 00
162,500	July, 1940	40,424 04	90,324 59	72,175 41	1,767 00
225,000	Jan., 1940	46,271 35	103,389 98	121,610 02	2,978 00
55,000	Jan., 1943	9,946 39	24,301 22	30,698 78	643 00
150,000	July, 1943	23,468 65	57,339 07	92,660 93	1,941 00
150,000	Jan., 1944	22,800 30	57,389 86	92,610 14	1,845 00
150,000	Jan., 1945	18,574 93	48,167 48	101,832 52	1,932 00
150,000	Jan., 1946	13,746 17	36,723 20	113,276 80	2,048 00
150,000	Jan., 1947	14,028 66	38,610 64	111,389 36	1,921 00
25,000	Jan., 1949	1,382 77	4,039 29	20,960 71	329 00
\$2,567,500	—	\$614,194 49	\$1,314,385 99	\$1,253,114 01	\$30,125 00

METROPOLITAN PARKS LOAN, INCLUDING BOULEVARDS AND NANTASKET.

Sinking Fund Requirements.

CITIES AND TOWNS.	Parks.	Boulevards.	Nantasket.	Total.
Arlington, . . .	\$601 78	\$318 42	\$39 58	\$959 78
Belmont, . . .	332 90	178 94	22 52	534 36
Boston, . . .	63,435 76	14,141 58	4,670 63	82,247 97
Braintree, . . .	178 19	62 66	21 29	262 14
Brookline, . . .	4,964 70	1,149 27	389 53	6,503 50
Cambridge, . . .	5,684 92	1,601 75	375 00	7,661 67
Canton, . . .	126 97	44 58	15 14	186 69
Chelsea, . . .	1,375 35	440 73	83 78	1,899 86
Cohasset, . . .	—	—	27 67	27 67
Dedham, . . .	665 80	138 27	46 81	850 88
Dover, . . .	157 91	55 73	18 83	232 47
Everett, . . .	1,459 64	657 93	89 85	2,207 42
Hingham, . . .	190 99	67 18	22 74	280 91
Hull, . . .	153 65	54 22	18 45	226 32
Hyde Park, . . .	769 30	316 91	49 42	1,135 63
Lynn, . . .	3,938 26	747 10	243 49	4,928 85
Malden, . . .	2,278 02	796 50	147 96	3,222 48
Medford, . . .	1,218 50	1,293 57	79 78	2,591 85
Melrose, . . .	850 39	398 25	56 11	1,304 75
Milton, . . .	1,267 59	1,192 05	98 69	2,558 33
Nahant, . . .	221 93	608 53	26 52	856 98
Needham, . . .	298 76	59 65	20 21	378 62
Newton, . . .	3,627 77	783 85	265 71	4,677 33
Quincy, . . .	1,577 01	1,323 39	100-61	3,001 01
Revere, . . .	824 78	931 77	51 50	1,808 05
Saugus, . . .	321 16	56 64	19 14	396 94
Somerville, . . .	3,458 12	882 36	214 98	4,555 46
Stoneham, . . .	284 89	64 47	17 06	366 42
Swampscott, . . .	513 22	109 35	37 05	659 62
Wakefield, . . .	511 09	93 69	31 82	636 60
Waltham, . . .	1,441 50	276 85	93 92	1,812 27
Watertown, . . .	755 43	150 02	50 88	956 33
Wellesley, . . .	662 60	148 52	50 34	861 46
Weston, . . .	367 05	84 65	28 74	480 44
Westwood, . . .	75 76	26 51	8 99	111 26
Weymouth, . . .	228 34	80 74	27 36	336 44
Winchester, . . .	648 73	557 01	45 42	1,251 16
Winthrop, . . .	596 45	118 39	40 20	755 04
Woburn, . . .	633 79	112 97	38 28	785 04
	\$106,699 00	\$30,125 00	\$7,686 00	\$144,510 00

METROPOLITAN PARKS LOAN, INCLUDING BOULEVARDS AND NANTASKET.

Interest Requirements.

CITIES AND TOWNS.	Parks.	Boulevards.	Nantasket.	Total.
Arlington, . . .	\$1,769 38	\$978 31	\$108 15	\$2,855 84
Belmont, . . .	978 81	549 78	61 53	1,590 12
Boston, . . .	186,515 81	43,448 41	12,761 28	242,725 50
Braintree, . . .	523 91	192 51	58 17	774 59
Brookline, . . .	14,597 38	3,531 00	1,064 28	19,192 66
Cambridge, . . .	16,714 99	4,921 19	1,024 59	22,660 77
Canton, . . .	373 33	136 98	41 37	551 68
Chelsea, . . .	4,043 85	1,354 09	228 90	5,626 84
Cohasset, . . .	—	—	75 60	75 60
Dedham, . . .	1,957 61	424 83	127 89	2,510 33
Dover, . . .	464 30	171 23	51 45	686 98
Everett, . . .	4,291 69	2,021 42	245 49	6,558 60
Hingham, . . .	561 56	206 40	62 16	830 12
Hull, . . .	451 76	166 60	50 40	668 76
Hyde Park, . . .	2,261 92	973 69	135 03	3,370 64
Lynn, . . .	11,579 40	2,295 38	665 28	14,540 06
Malden, . . .	6,697 92	2,447 17	404 25	9,549 34
Medford, . . .	3,582 68	3,974 34	217 98	7,775 00
Melrose, . . .	2,500 35	1,223 59	153 30	3,877 24
Milton, . . .	3,726 99	3,662 43	269 64	7,659 06
Nahant, . . .	652 54	1,869 62	72 45	2,594 61
Needham, . . .	878 41	183 26	55 23	1,116 90
Newton, . . .	10,666 47	2,408 30	725 97	13,800 74
Quincy, . . .	4,636 78	4,065 97	274 89	8,977 64
Revere, . . .	2,425 05	2,862 75	140 70	5,428 50
Saugus, . . .	944 30	174 00	52 29	1,170 59
Somerville, . . .	10,167 66	2,710 96	587 37	13,465 99
Stoneham, . . .	837 63	198 07	46 62	1,082 32
Swampscott, . . .	1,508 99	335 98	101 22	1,946 19
Wakefield, . . .	1,502 72	287 85	86 94	1,877 51
Waltham, . . .	4,238 35	850 59	256 62	5,345 56
Watertown, . . .	2,221 13	460 93	139 02	2,821 08
Wellesley, . . .	1,948 20	456 30	137 55	2,542 05
Weston, . . .	1,079 20	260 08	78 54	1,417 82
Westwood, . . .	222 74	81 45	24 57	328 76
Weymouth, . . .	671 36	248 05	74 76	994 17
Winchester, . . .	1,907 42	1,711 35	124 11	3,742 88
Winthrop, . . .	1,753 69	363 74	109 83	2,227 26
Woburn, . . .	1,863 49	347 08	104 58	2,315 15
	\$313,719 77	\$92,555 68	\$21,000 00	\$427,275 45

METROPOLITAN PARKS LOAN, INCLUDING BOULEVARDS AND NANTASKET.

Maintenance Requirements.

CITIES AND TOWNS.	Parks.	Boulevards.	Nantasket.	Total.
Arlington,	\$2,449 69	\$1,060 00	\$165 77	\$3,675 46
Belmont,	1,355 15	595 69	94 31	2,045 15
Boston,	258,229 71	47,076 45	19,559 42	324,865 58
Braintree,	725 35	208 59	89 16	1,023 10
Brookline,	20,209 96	3,825 85	1,631 24	25,667 05
Cambridge,	23,141 77	5,332 12	1,570 41	30,044 30
Canton,	516 87	148 42	63 41	728 70
Chelsea,	5,598 68	1,467 16	350 84	7,416 68
Cohasset,	—	—	115 88	115 88
Dedham,	2,710 30	460 30	196 03	3,366 63
Dover,	642 83	185 53	78 86	907 22
Everett,	5,941 81	2,190 21	376 27	8,508 29
Hingham,	777 47	223 63	95 28	1,096 38
Hull,	625 46	180 51	77 25	883 22
Hyde Park,	3,131 61	1,054 99	206 77	4,393 37
Lynn,	16,031 59	2,487 05	1,019 69	19,538 33
Malden,	9,273 21	2,651 52	619 61	12,544 34
Medford,	4,960 19	4,306 21	334 11	9,600 51
Melrose,	3,461 71	1,325 76	234 97	5,022 44
Milton,	5,159 99	3,968 25	413 29	9,541 53
Nahant,	903 43	2,025 74	111 05	3,040 22
Needham,	1,216 16	198 56	84 66	1,499 38
Newton,	14,767 65	2,609 40	1,112 71	18,489 76
Quincy,	6,419 58	4,405 49	421 33	11,246 40
Revere,	3,357 47	3,101 79	215 66	6,674 92
Saugus,	1,307 37	188 53	80 15	1,576 05
Somerville,	14,077 04	2,937 33	900 28	17,914 65
Stoneham,	1,159 69	214 62	71 46	1,445 77
Swampscott,	2,089 19	364 03	155 15	2,608 37
Wakefield,	2,080 51	311 88	133 26	2,525 65
Waltham,	5,867 97	921 61	393 33	7,182 91
Watertown,	3,075 15	499 42	213 08	3,787 65
Wellesley,	2,697 27	494 40	210 83	3,402 50
Weston,	1,494 13	281 80	120 39	1,896 32
Westwood,	308 38	88 25	37 66	434 29
Weymouth,	929 49	268 76	114 59	1,312 84
Winchester,	2,640 80	1,854 25	190 23	4,685 28
Winthrop,	2,427 97	394 12	168 34	2,990 43
Woburn,	2,580 00	376 06	160 30	3,116 36
	\$434,342 60	\$100,284 28	\$32,187 03	\$566,813 91

METROPOLITAN PARKS LOAN, INCLUDING BOULEVARDS.

Serial Bond Requirements.

CITIES AND TOWNS.	Parks.	Boulevards.	Total.
Arlington,	\$35 59	\$6 13	\$41 72
Belmont,	19 69	3 45	23 14
Boston,	3,751 48	272 27	4,023 75
Braintree,	10 54	1 21	11 75
Brookline,	293 60	22 13	315 73
Cambridge,	336 20	30 84	367 04
Canton,	7 51	86	8 37
Chelsea,	81 34	8 49	89 83
Dedham,	39 37	2 66	42 03
Dover,	9 34	1 07	10 41
Everett,	86 32	12 67	98 99
Hingham,	11 29	1 29	12 58
Hull,	9 09	1 04	10 13
Hyde Park,	45 50	6 10	51 60
Lynn,	232 90	14 38	247 28
Malden,	134 72	15 34	150 06
Medford,	72 06	24 91	96 97
Melrose,	50 29	7 67	57 96
Milton,	74 97	22 95	97 92
Nahant,	13 12	11 72	24 84
Needham,	17 67	1 15	18 82
Newton,	214 54	15 09	229 63
Quincy,	93 26	25 48	118 74
Revere,	48 78	17 94	66 72
Saugus,	18 99	1 09	20 08
Somerville,	204 51	16 99	221 50
Stoneham,	16 85	1 24	18 09
Swampscott,	30 35	2 11	32 46
Wakefield,	30 22	1 80	32 02
Waltham,	85 25	5 33	90 58
Watertown,	44 67	2 89	47 56
Wellesley,	39 19	2 86	42 05
Weston,	21 71	1 63	23 34
Westwood,	4 48	51	4 99
Weymouth,	13 50	1 55	15 05
Winchester,	38 36	10 72	49 08
Winthrop,	35 27	2 27	37 54
Woburn,	37 48	2 17	39 65
	\$6,310 00	\$580 00	\$6,890 00

Wellington Bridge, Special Assessment.

CITIES AND TOWNS.	Maintenance.	Per Cent.
Malden,	\$707 07	14
Medford,	959 59	19
Reading,	50 50	1
Somerville,	631 31	12½
Stoneham,	176 77	3½
	\$2,525 24	50

Alewife Brook (Chapter 529 of the Acts of 1906, as amended by Chapter 529 of the Acts of 1907).

CITIES AND TOWNS.	Assessment.	Interest.	Total.
Arlington,	\$1,500 00	\$945 00	\$2,445 00
Belmont,	1,062 50	669 37	1,731 87
Cambridge,	2,937 50	1,850 63	4,788 13
Somerville,	750 00	472 50	1,222 50
	\$6,250 00	\$3,937 50	\$10,187 50

STATEMENT III.

METROPOLITAN SEWERAGE DISTRICT.

Debt, North System.

Gross sewerage, north system, debt, April 1, 1913:—

Bonds outstanding (sinking fund),	\$6,563,000 00	
Bonds outstanding (serial),	437,000 00	
	<hr/>	\$7,000,000 00

an increase for the year of \$375,000.

Sinking fund, April 1, 1913, 1,593,611 22

an increase for the year of \$173,671.61.

Net sewerage, north system, debt, April 1, 1913, \$5,406,388 78

an increase for the year of \$201,328.39.

Assessments, North System.

Sinking fund requirements,		\$117,915 00
Serial bonds,	\$10,000 00	
Less premium,	7,257 60	
	<hr/>	2,742 40

Interest:—

One year on \$6,931,000,	\$217,175 00	
One year and four months on \$10,000,	533 33	
Interest from Dec. 4, 1912, to Feb. 3, 1913, on \$100,000,	655 60	
Interest on advances and temporary loans estimated, 1913,	5,000 00	
Adjustment of interest charges in 1912,	7,208 66	
	<hr/>	\$230,572 59
Less accrued interest,	6,257 97	
	<hr/>	224,314 62
Maintenance,	\$170,600 00	
Less balance on hand,	1,809 37	
	<hr/>	168,790 63
		<hr/>

Total north metropolitan sewerage assessment, \$513,762 65

CHAPTER 512, ACTS OF 1911.

AN ACT TO PROVIDE FOR AN OUTLET FOR THE SEWAGE OF THE CITIES OF
EVERETT AND MALDEN INTO THE NORTH METROPOLITAN SYSTEM.

Bonds issued,	\$62,000 00	
Assessed 1912,	3,000 00	
	<hr/>	
Outstanding,		\$59,000 00
1913 serial payment,		\$3,000 00
Interest: —		
One year on \$56,000,	\$1,960 00	
One year and four months on \$3,000,	140 00	
	<hr/>	2,100 00
		<hr/>
		\$5,100 00

Everett and Malden, one-half each.

METROPOLITAN SEWERAGE DISTRICT.

Debt, South System.

Gross sewerage, south system, debt, April 1, 1913: —

Bonds outstanding (sinking fund), \$8,877,912 00

showing no change for the past year.

Sinking fund, April 1, 1913, \$89,532 29

an increase for the year of \$103,035.66.

Net sewerage, south system, debt, April 1, 1913, \$7,984,379 71

a decrease for the year of \$103,035.66.

Assessments, South System.

Sinking fund requirements,	\$73,757 00	
One year's interest on \$8,877,912,	\$298,777 36	
Interest on advances and temporary loans, estimated,		
1913,	4,000 00	
Adjustment of interest charges in 1912,	497 92	
	<hr/>	303,275 28
Maintenance,	\$109,460 00	
Less balance on hand,	4,491 41	
	<hr/>	104,968 59
		<hr/>
Total south metropolitan sewerage assessment,		\$482,000 87

METROPOLITAN SEWERAGE LOAN.

North System — Assessment.

CITIES AND TOWNS.	Sinking Fund.	Serial Bonds.	Interest.	Maintenance.	Total.
Arlington, . . .	\$3,737 91	\$86 93	\$7,110 78	\$3,612 12	\$14,547 74
Belmont, . . .	2,216 80	51 56	4,217 12	1,789 18	8,274 66
Boston, . . .	18,135 33	421 78	34,499 59	32,222 13	85,278 83
Cambridge, . . .	26,707 75	621 15	50,807 26	33,808 76	111,944 92
Chelsea, . . .	6,166 95	143 43	11,731 66	10,465 02	28,507 06
Everett, . . .	6,732 95	156 59	12,808 37	10,802 60	30,500 51
Lexington, . . .	1,190 94	27 70	2,265 53	1,282 81	4,766 98
Malden, . . .	9,539 32	221 86	18,147 06	14,313 45	42,221 69
Medford, . . .	6,190 54	143 98	11,776 52	7,460 55	25,571 59
Melrose, . . .	4,115 23	95 71	7,828 58	5,063 72	17,103 24
Revere, . . .	4,280 31	99 55	8,142 62	5,873 91	18,396 39
Somerville, . . .	15,317 16	356 24	29,138 47	24,913 50	69,725 37
Stoneham, . . .	1,155 57	26 88	2,198 29	2,278 67	5,659 41
Wakefield, . . .	2,417 26	56 22	4,598 45	3,679 63	10,751 56
Winchester, . . .	3,714 32	86 38	7,065 91	3,004 47	13,871 08
Winthrop, . . .	3,608 20	83 92	6,864 03	3,274 54	13,830 69
Woburn, . . .	2,688 46	62 52	5,114 38	4,945 57	12,810 93
	\$117,915 00	\$2,742 40	\$224,314 62	\$168,790 63	\$513,762 65

METROPOLITAN SEWERAGE LOAN, NORTH SYSTEM, SINKING FUND.

BONDS ISSUED AND AMOUNTS ALREADY PROVIDED FOR.	Due Date.	Sinking Fund Dec. 1, 1912.	Amount of Dec. 1, 1912, Sinking Fund at Maturity of Loan, Accumulations at 3 Per Cent.	Balance.	Portion of Balance to be provided for this Year.	Sinking Fund Requirements for 1913.
\$5,330,000 (2,087,583)	Jan., 1930 Sunk.	\$1,431,406 20	\$2,374,697 66	\$5,042,885 34	\$168,096 18	\$104,387 00
465,000 (164,625)	Jan., 1930 Sunk.	108,576 02	180,127 22	449,497 78	14,983 26	9,304 00
250,000 (31,250)	July, 1943 Sunk.	13,733 57	34,057 44	247,192 56	4,119 88	1,712 00
50,000 (6,250)	Jan., 1943 Sunk.	2,771 58	6,771 58	49,478 42	824 64	348 00
55,000 (6,875)	July, 1943 Sunk.	4,794 89	11,890 69	49,984 31	833 07	346 00
300,000 (15,000)	Jan., 1949 Sunk.	9,130 18	26,670 70	288,329 30	3,604 12	1,271 00
113,000 (4,708)	Jan., 1949 Sunk.	2,073 29	6,056 41	111,651 59	1,550 72	547 00
\$6,563,000 (2,316,291)	- Sunk.	\$1,572,485 73	\$2,640,271 70	\$6,239,019 30	\$194,011 87	\$117,915 00

METROPOLITAN SEWERAGE LOAN, NORTH SYSTEM.

Amounts provided for and to be provided for.

BONDS ISSUED.	Due Dates.	Amount provided for.	Amount to be provided for.	1913.
\$5,330,000	1930	$\frac{1}{8} + \frac{1}{6} + \frac{3}{30}$	$\frac{7}{30} + \frac{3}{8}$	$\frac{3}{10}$
265,000	1930	$\frac{70}{240} + \frac{3}{30}$	$\frac{7}{30} + \frac{3}{8}$	$\frac{1}{30}$
200,000	1930	$\frac{40}{240} + \frac{3}{30}$	$\frac{7}{30} + \frac{111}{240}$	$\frac{1}{30}$
300,000	1943	$\frac{10}{6}$	$\frac{1}{6} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{60}$
55,000	1943	$\frac{6}{48}$	$\frac{1}{6} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{60}$
300,000	1949	$\frac{4}{80}$	$\frac{6}{30} + \frac{1}{6} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{80}$
113,000	1949	$\frac{3}{72}$	$\frac{6}{72} + \frac{1}{6} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{72}$

NORTH METROPOLITAN SYSTEM.

Ratios of Contribution on the Basis of the Valuations of 1913 and the Census Returns of 1910. Assessments made by the Metropolitan Water and Sewerage Board.

CITIES AND TOWNS.	State Valuation, Acts 1913, Chapter 607.	Proportion for Interest and Sinking Funds (Per Cent.).	Population United States Census 1910.	Proportion for Maintenance and Operation (Per Cent.).
Arlington,	\$18,168,452	3.17	11,187	2.14
Belmont,	10,789,904	1.88	5,542	1.06
Boston:—				
Charlestown, }	88,218,700	15.38	99,932	19.09
East Boston, }				
Cambridge,	129,881,058	22.65	104,839	20.03
Chelsea,	30,004,278	5.23	32,452	6.20
Everett,	32,751,652	5.71	33,484	6.40
Lexington,	5,788,900 ¹	1.01	4,000 ²	0.76
Malden,	46,389,388	8.09	44,404	8.48
Medford,	30,102,933	5.25	23,150	4.42
Melrose,	20,046,268	3.49	15,715	3.00
Revere,	20,838,470	3.63	18,219	3.48
Somerville,	74,496,160	12.99	77,236	14.76
Stonham,	5,599,552	0.98	7,090	1.35
Wakefield,	11,759,792	2.05	11,404	2.18
Winchester,	18,041,359	3.15	9,309	1.78
Winthrop,	17,553,306	3.06	10,132	1.94
Woburn,	13,052,791	2.28	15,308	2.93
	\$573,482,963	100.00	523,403	100.00

¹ 56.57 per cent. of the town valuation derived from figures certified by the clerk of the board of assessors.

² Population of Lexington sewerage district, certified by the clerk of the board of assessors.

METROPOLITAN SEWERAGE LOAN.

South System — Assessment.

CITIES AND TOWNS.	Sinking Fund.	Interest.	Maintenance.	Total Assessment.
Boston, . . .	\$32,231 81	\$132,531 30	\$57,407 32	\$222,170 43
Brookline, . . .	16,720 71	68,752 50	8,355 50	93,828 71
Dedham, . . .	1,615 28	6,641 73	2,792 17	11,049 18
Hyde Park, ¹ . . .	—	—	—	—
Milton, . . .	3,916 50	16,103 92	2,382 79	22,403 21
Newton, . . .	9,647 42	39,668 41	11,966 42	61,282 25
Quincy, . . .	3,938 62	16,194 90	9,814 56	29,948 08
Waltham, . . .	3,518 21	14,466 23	8,376 49	26,360 93
Watertown, . . .	2,168 45	8,916 29	3,873 34	14,958 08
	\$73,757 00	\$303,275 28	\$104,968 59	\$482,000 87

¹ Included in Boston.

METROPOLITAN SEWERAGE LOAN, SOUTH SYSTEM, SINKING FUND.

BONDS ISSUED AND AMOUNTS ALREADY PROVIDED FOR.	Due Date.	Sinking Fund Dec. 1, 1912.	Amount of Dec. 1, 1912, Sinking Fund at Ma- turity of Loan, Accu- mulations at 3 Per Cent.	Balance.	Portion of Balance to be provided for this Year.	Sinking Fund Require- ments for 1913.
800,000 (313,333)	Jan., 1930 Sunk.	\$212,629 63	\$352,751 78	\$760,581 22	\$25,352 71	\$15,744 00
839,000 (216,742)	Mar., 1935 Sunk.	126,605 90	243,758 52	811,983 48	13,533 06	7,241 00
65,000 (15,708)	Mar., 1936 Sunk.	8,814 53	17,483 85	63,224 15	1,053 74	547 00
1,024,912 (196,441)	July, 1939 Sunk.	99,326 41	218,657 80	1,002,695 20	16,711 59	7,821 00
3,586,000 (627,550)	July, 1940 Sunk.	302,262 95	685,515 43	3,528,034 57	58,800 58	26,710 00
996,000 (124,500)	Jan., 1943 Sunk.	55,035 75	134,464 43	986,035 57	16,433 93	6,930 00
392,000 (43,556)	July, 1944 Sunk.	17,861 88	45,633 92	389,922 08	5,415 58	2,184 00
175,000 (14,583)	Jan., 1946 Sunk.	12,017 17	32,104 14	157,478 86	2,187 21	843 00
1,000,000 (78,125)	Jan., 1946 Sunk.	47,149 77	125,961 65	952,163 35	14,877 55	5,737 00
\$8,877,912 (1,630,538)	— Sunk.	\$881,703 99	\$1,856,331 52	\$8,652,118 48	\$154,365 95	\$73,757 00

METROPOLITAN SEWERAGE LOAN, SOUTH SYSTEM.

Amounts provided for and to be provided for.

BONDS ISSUED.	Due Dates.	Amount provided for.	Amount to be provided for.	1913.
\$800,000	1930	$\frac{1}{8} + \frac{1}{8} + \frac{3}{30}$	$\frac{7}{30} + \frac{3}{8}$	$\frac{1}{30}$
839,000	1935	$\frac{1}{8} + \frac{8}{60}$	$\frac{2}{60} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{60}$
65,000	1936	$\frac{1}{8} + \frac{7}{60}$	$\frac{3}{60} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{60}$
1,024,912	1939	$\frac{1}{8} + \frac{4}{60}$	$\frac{6}{60} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{60}$
3,586,000	1940	$\frac{1}{8} + \frac{3}{60}$	$\frac{7}{60} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{60}$
996,000	1943	$\frac{1}{8}$	$\frac{1}{8} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{60}$
392,000	1944	$\frac{8}{72}$	$\frac{1}{72} + \frac{1}{8} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{72}$
175,000	1946	$\frac{6}{72}$	$\frac{3}{72} + \frac{1}{8} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{72}$
1,000,000	1946	$\frac{5}{64}$	$\frac{3}{64} + \frac{1}{8} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{64}$

SOUTH METROPOLITAN SYSTEM.

Ratios of Contribution on the Basis of the Valuations of 1913 and the Census Returns of 1910. Assessments made by the Metropolitan Water and Sewerage Board.

CITIES AND TOWNS.	State Valuation, Acts 1913, Chapter 607.	Proportion for Interest and Sinking Funds (Per Cent.).	Population United States Census 1910.	Proportion for Maintenance and Operation (Per Cent.).
Waltham,	\$33,292,633	4.77	27,834	7.98
Watertown,	20,541,610	2.94	12,875	3.69
Newton,	91,317,225	13.08	39,806	11.40
Boston,	305,170,800	43.70	190,938	54.69
Brighton District,	\$45,928,000	-	26,575	-
Back Bay District,	75,385,100	-	18,048	-
Roxbury District,	52,353,600	-	45,957	-
West Roxbury District,	47,404,500	-	28,608	-
Dorchester District,	65,858,000	-	56,243	-
Hyde Park District,	18,241,600	-	15,507	-
Brookline,	158,297,618	22.67	27,792	7.96
Dedham,	15,325,221 ¹	2.19	9,284	2.66
Milton,	37,069,363	5.31	7,924	2.27
Quincy,	37,250,883	5.34	32,642	9.35
	\$698,265,353	100.00	349,095	100.00

¹ 96.84 per cent. of the town valuation derived from figures certified by the chairman of the board of assessors.

METROPOLITAN PARKS AND SEWERAGE LOANS.

Comparison of Assessments, 1912 and 1913.

CITIES AND TOWNS.	PARKS.		SEWER.	
	1912.	1913.	1912.	1913.
Arlington, . .	\$9,412 45	\$9,977 80	\$11,166 80	\$14,547 74
Belmont, . .	5,618 26	5,924 64	6,122 08	8,274 66
Boston, . .	597,213 86	653,862 80	285,937 77	307,449 26
Braintree, . .	1,895 63	2,071 58	—	—
Brookline, . .	47,207 28	51,678 94	86,141 28	93,828 71
Cambridge, . .	60,429 24	65,521 91	105,568 39	111,944 92
Canton, . .	1,350 09	1,475 44	—	—
Chelsea, . .	13,757 37	15,033 21	26,283 29	28,507 06
Cohasset, . .	197 58	219 15	—	—
Dedham, . .	6,181 67	6,769 87	11,806 49	11,049 18
Dover, . .	1,681 07	1,837 08	—	—
Everett, . .	15,931 68	17,373 30	30,458 27	33,050 51
Hingham, . .	2,031 44	2,219 99	—	—
Hull, . .	1,636 53	1,788 43	—	—
Hyde Park, . .	8,203 65	8,951 24	14,538 32	— ¹
Lexington, . .	—	—	4,291 41	4,766 98
Lynn, . .	35,833 55	39,254 52	—	—
Malden, . .	23,906 26	26,173 29	45,205 60	44,771 69
Medford, . .	19,319 02	21,023 92	22,710 68	25,571 59
Melrose, . .	9,412 75	10,262 39	15,804 48	17,103 24
Milton, . .	18,305 37	19,856 84	22,109 46	22,403 21
Nahant, . .	6,055 24	6,516 65	—	—
Needham, . .	2,751 49	3,013 72	—	—
Newton, . .	33,970 26	37,197 46	65,065 35	61,282 25
Quincy, . .	21,503 81	23,343 79	29,944 04	29,948 08
Reading, . .	42 20	50 50	—	—
Revere, . .	12,907 30	13,978 19	15,635 77	18,396 39
Saugus, . .	2,887 21	3,163 66	—	—
Somerville, . .	34,825 64	38,011 41	65,629 12	69,725 37
Stoneham, . .	2,808 47	3,089 37	5,466 51	5,659 41
Swampscott, . .	4,791 20	5,246 64	—	—
Wakefield, . .	4,629 13	5,071 78	9,708 90	10,751 56
Waltham, . .	13,173 87	14,431 32	27,160 76	26,360 93
Watertown, . .	6,950 10	7,612 62	14,045 40	14,958 08
Wellesley, . .	6,254 77	6,848 06	—	—
Weston, . .	3,487 51	3,817 92	—	—
Westwood, . .	804 59	879 30	—	—
Weymouth, . .	2,432 75	2,658 50	—	—
Winchester, . .	8,962 61	9,728 40	11,776 36	13,871 08
Winthrop, . .	5,487 20	6,010 27	10,981 06	13,830 69
Woburn, . .	5,709 70	6,256 20	12,147 55	12,810 93
	\$1,059,959 80	\$1,158,202 10	\$955,705 14	\$1,000,863 52

¹ Included in Boston.

STATEMENT IV.

CHARLES RIVER BASIN.

Gross Charles River Basin debt, April 1, 1913: —

Bonds outstanding (sinking fund),	\$4,125,000 00	
Bonds outstanding (serial),	284,000 00	
	<hr/>	\$4,409,000 00

a decrease for the year of \$8,000.

Sinking fund, April 1, 1913, 618,981 97

an increase for the year of \$130,528.96.

Net Charles River Basin debt, April 1, 1913, \$3,790,018 03

a decrease for the year of \$138,528.96.

TOTAL CHARLES RIVER BASIN LOAN — ASSESSMENT FOR 1913.

District.

Serial bonds,		\$8,000 00	
Interest: —			
One year on \$4,409,000,	\$152,190 00		
Six months on \$8,000,	140 00		
	<hr/>	\$152,330 00	
Adjustment of interest charges in			
1912,	\$2,105 52		
Interest on bridge,	41,381 82		
	<hr/>	43,487 34	
			108,842 66
Maintenance,	\$125,135 21		
Less balance on hand,	3,327 06		
	<hr/>		121,808 15
			<hr/>
Total Charles River Basin district assessment,		\$238,650 81	

Charles River Bridge.

Sinking fund,	\$13,793 00
Interest,	41,381 82
	<hr/>
	\$55,174 82

Boston and Cambridge one-half each.

CHARLES RIVER BASIN LOAN SINKING FUND.

District.

BONDS ISSUED.	Due Date.	Sinking Fund Dec. 1, 1912.	Amount of Dec. 1, 1912, Sinking Fund at Ma- turity of Loan, Accu- mulations at 3 Per Cent.	Balance.	Sinking Fund Require- ments for 1913.
\$177,272 73	Jan., 1944	\$145,605 66	\$366,499 06	-	-
283,636 36	Jan., 1945	249,760 97	647,666 25	-	-
425,454 55	Jan., 1946	241,883 59	646,197 37	-	-
815,454 55	Jan., 1947	311,917 66	858,481 27	-	-
283,636 36	Jan., 1948	76,395 61	216,616 41	-	-
602,727 28	Jan., 1949	96,159 11	280,895 94	-	-
336,818 17	Jan., 1950	12,382 38	37,264 15	-	-
\$2,925,000 00	-	\$1,134,104 93 ¹	\$3,053,620 45	-	-

Boston and Cambridge, Charles River Bridge.

\$72,727 27	Jan., 1944	\$16,673 40	\$41,968 05	\$30,759 22	\$613 00
116,363 64	Jan., 1945	28,361 06	73,544 32	42,819 32	812 00
174,545 45	Jan., 1946	28,460 79	76,033 63	98,511 82	1,781 00
334,545 45	Jan., 1947	38,353 47	105,559 06	228,986 39	3,950 00
116,363 64	Jan., 1948	9,880 97	28,017 06	88,346 58	1,455 00
247,272 72	Jan., 1949	13,859 16	40,484 79	206,787 93	3,253 00
138,181 83	Jan., 1950	3,295 01	9,916 17	128,265 66	1,929 00
\$1,200,000 00	-	\$138,883 86	\$375,523 08	\$824,476 92	\$13,793 00

¹ Includes \$719,122.99 balance of cost of embankment which is due from city of Boston.

CHARLES RIVER BASIN LOAN.

Proportions to be paid annually as found by Commissioners.

CITIES AND TOWNS.	For Interest and Sinking Fund Requirements.	For Maintenance Requirements.
Arlington, . . . . .	.00462	.00517
Belmont, . . . . .	.00263	.00294
Boston, . . . . .	.60021	.60987
Braintree, . . . . .	.00248	.00278
Brookline, . . . . .	.04545	.05087
Cambridge, . . . . .	.09501	.04897
Canton, . . . . .	.00177	.00198
Chelsea, . . . . .	.00977	.01094
Dedham, . . . . .	.00547	.00612
Dover, . . . . .	.00220	.00246
Everett, . . . . .	.01048	.01173
Hingham, . . . . .	.00266	.00298
Hull, . . . . .	.00215	.00241
Hyde Park, . . . . .	.00577	.00646
Lynn, . . . . .	.02841	.03180
Malden, . . . . .	.01726	.01932
Medford, . . . . .	.00930	.01041
Melrose, . . . . .	.00654	.00732
Milton, . . . . .	.01152	.01289
Nahant, . . . . .	.00310	.00347
Needham, . . . . .	.00236	.00264
Newton, . . . . .	.03099	.03469
Quincy, . . . . .	.01173	.01313
Revere, . . . . .	.00600	.00672
Saugus, . . . . .	.00223	.00250
Somerville, . . . . .	.02508	.02807
Stoneham, . . . . .	.00198	.00222
Swampscott, . . . . .	.00432	.00484
Wakefield, . . . . .	.00371	.00415
Waltham, . . . . .	.01095	.01226
Watertown, . . . . .	.00593	.00664
Wellesley, . . . . .	.00588	.00658
Weston, . . . . .	.00335	.00375
Westwood, . . . . .	.00105	.00118
Weymouth, . . . . .	.00319	.00357
Winchester, . . . . .	.00530	.00593
Winthrop, . . . . .	.00468	.00524
Woburn, . . . . .	.00447	.00500
	1.00000	1.00000

CHARLES RIVER BASIN LOAN — ASSESSMENT.

CITIES AND TOWNS.	Interest Re- quirements.	Cost of Maintenance.	Serial Bonds.	Total Assessment.
Arlington, . . .	\$502 85	\$629 75	\$36 96	\$1,169 56
Belmont, . . .	286 26	358 12	21 04	665 42
Boston, . . .	65,328 45	74,287 14	4,801 68	144,417 27
Braintree, . . .	269 93	338 63	19 84	628 40
Brookline, . . .	4,946 90	6,196 38	363 60	11,506 88
Cambridge, . . .	10,341 14	5,964 95	760 08	17,066 17
Canton, . . .	192 65	241 18	14 16	447 99
Chelsea, . . .	1,063 39	1,332 58	78 16	2,474 13
Dedham, . . .	595 37	745 47	43 76	1,384 60
Dover, . . .	239 45	299 65	17 60	556 70
Everett, . . .	1,140 67	1,428 81	83 84	2,653 32
Hingham, . . .	289 52	362 99	21 28	673 79
Hull, . . .	234 01	293 56	17 20	544 77
Hyde Park, . . .	628 02	786 88	46 16	1,461 06
Lynn, . . .	3,092 22	3,873 50	227 28	7,193 00
Malden, . . .	1,878 62	2,353 33	138 08	4,370 03
Medford, . . .	1,012 24	1,268 02	74 40	2,354 66
Melrose, . . .	711 83	891 64	52 32	1,655 79
Milton, . . .	1,253 87	1,570 11	92 16	2,916 14
Nahant, . . .	337 41	422 67	24 80	784 88
Needham, . . .	256 87	321 57	18 88	597 32
Newton, . . .	3,373 03	4,225 52	247 92	7,846 47
Quincy, . . .	1,276 73	1,599 34	93 84	2,969 91
Revere, . . .	653 06	818 55	48 00	1,519 61
Saugus, . . .	242 72	304 52	17 84	565 08
Somerville, . . .	2,729 77	3,419 15	200 64	6,349 56
Stoneham, . . .	215 51	270 41	15 84	501 76
Swampscott, . . .	470 20	589 55	34 56	1,094 31
Wakefield, . . .	403 81	505 50	29 68	938 99
Waltham, . . .	1,191 83	1,493 37	87 60	2,772 80
Watertown, . . .	645 44	808 81	47 44	1,501 69
Wellesley, . . .	640 00	801 50	47 04	1,488 54
Weston, . . .	364 62	456 78	26 80	848 20
Westwood, . . .	114 28	143 73	8 40	266 41
Weymouth, . . .	347 21	434 86	25 52	807 59
Winchester, . . .	576 87	722 32	42 40	1,341 59
Winthrop, . . .	509 38	638 27	37 44	1,185 09
Woburn, . . .	486 53	609 04	35 76	1,131 33
	\$108,842 66	\$121,808 15	\$8,000 00	\$238,650 81

STATEMENT OF THE DEBTS OF THE METRO

		METROPOLITAN PARKS.		METROPOLITAN PARKS, NANTASKET.		METROPOLITAN PARKS, BOULEVARDS.	
Bonds outstanding (sinking fund),		\$8,755,000 00		\$700,000 00		\$2,567,500 00	
Bonds outstanding (serial),		135,250 00		-		100,000 00	
Gross debt,		\$8,920,250 00		\$700,000 00		\$2,667,500 00	
Sinking funds,		2,358,046 08		182,943 10		625,698 42	
Net debt,		\$6,562,203 92		\$517,056 90		\$2,041,801 58	
		Per Cent.		Per Cent.		Per Cent.	
1	Arlington,	.00564	\$37,010 83	.00515	\$2,662 84	.01057	\$21,581 84
2	Belmont,	.00312	20,474 08	.00293	1,514 98	.00594	12,128 30
3	Boston,	.59453	3,901,427 10	.60768	314,205 14	.46943	958,482 92
4	Braintree,	.00167	10,958 88	.00277	1,432 25	.00208	4,246 95
5	Brookline,	.04653	305,339 35	.05068	26,204 44	.03815	77,894 73
6	Cambridge,	.05328	349,634 23	.04879	25,227 21	.05317	108,562 59
7	Canton,	.00119	7,509 03	.00197	1,018 60	.00148	3,021 87
8	Chelsea,	.01289	84,586 81	.01090	5,635 92	.01463	29,871 56
9	Cohasset,	-	-	.00360	1,861 40	-	-
10	Dedham,	.00624	40,948 16	.00609	3,148 88	.00459	9,371 87
11	Dover,	.00148	9,712 07	.00245	1,266 79	.00185	3,777 33
12	Everett,	.01368	89,770 95	.01169	6,044 40	.02184	44,592 95
13	Hingham,	.00179	11,746 35	.00296	1,530 49	.00223	4,553 22
14	Hull,	.00144	9,449 58	.00240	1,240 94	.00180	3,675 24
15	Hyde Park,	.00721	47,313 49	.00643	3,324 68	.01052	21,470 75
16	Lexington,	-	-	-	-	-	-
17	Lynn,	.03691	242,210 95	.03168	16,380 36	.02480	50,636 68
18	Malden,	.02135	140,103 06	.01925	9,953 35	.02644	53,985 23
19	Medford,	.01142	74,940 37	.01038	5,367 05	.01294	87,674 96
20	Melrose,	.00797	52,300 77	.00730	3,774 52	.01322	26,992 62
21	Milton,	.01188	77,958 93	.01284	6,639 01	.03957	80,794 09
22	Nahant,	.00208	13,649 39	.00345	1,783 85	.02020	41,244 9
23	Needham,	.00280	18,374 17	.00263	1,359 86	.00198	4,042 77
24	Newton,	.03400	223,114 93	.03457	17,874 66	.02602	53,127 68
25	Quincy,	.01478	96,989 37	.01309	6,768 27	.04393	89,696 34
26	Revere,	.00773	50,725 84	.00670	3,464 28	.03093	63,152 92
27	Saugus,	.00301	19,752 23	.00249	1,287 47	.00188	3,838 59
28	Somerville,	.03241	212,681 03	.02797	14,462 08	.02929	59,804 37
29	Stoneham,	.00267	17,521 08	.00222	1,147 87	.00214	4,369 46
30	Swampscott,	.00481	31,564 20	.00482	2,492 21	.00363	7,411 74
31	Wakefield,	.00479	31,432 96	.00414	2,140 62	.00311	6,350 00
32	Waltham,	.01351	88,655 37	.01222	6,318 44	.00919	18,764 15
33	Watertown,	.00708	46,460 40	.00662	3,422 92	.00498	10,168 17
34	Wellesley,	.00621	40,751 29	.00655	3,386 72	.00493	10,066 08
35	Weston,	.00344	22,573 98	.00374	1,933 79	.00281	5,737 46
36	Westwood,	.00071	4,659 16	.00117	604 95	.00088	1,796 79
37	Weymouth,	.00214	14,043 12	.00356	1,840 72	.00268	5,472 03
38	Winchester,	.00608	39,898 20	.00591	3,055 80	.01849	37,752 91
39	Winthrop,	.00559	36,682 72	.00523	2,704 20	.00393	8,024 28
40	Woburn,	.00594	38,979 49	.00498	2,574 94	.00375	7,656 75
		1.00000	\$6,562,203 92	1.00000	\$517,056 90	1.00000	\$2,041,801 58

1 See next page for details.

2 District proportion.

POLITAN DISTRICT (ACTS OF 1911, CHAPTER 526).

METROPOLITAN SEWERAGE, NORTH SYSTEM.		METROPOLITAN SEWERAGE, SOUTH SYSTEM.		METROPOLITAN WATER.		CHARLES RIVER BASIN.			
\$6,563,000 00		\$8,877,912 00		\$41,398,000 00		\$4,125,000 00			
437,000 00		—		375,000 00		284,000 00		TOTALS.	
\$7,000,000 00		\$8,877,912 00		\$41,773,000 00		\$4,409,000 00			
1,601,929 95		898,179 70		10,005,324 70		623,722 43			
\$5,398,070 05		\$7,979,732 30		\$31,767,675 30		\$3,785,277 57 ¹			
5,389,070 05 ²						2,066,352 76 ²			
Per Cent.		Per Cent.		Per Cent.		Per Cent.			
.0317	\$169,248 52	—	—	.008665809	\$275,292 61	.00462	\$9,546 55	\$515,343 19	1
.0188	100,374 52	—	—	.008824130	121,483 72	.00263	5,434 51	261,410 11	2
.1538	821,148 97	.4370	\$3,487,143 02	.779029390	24,747,952 71	.60021	2,430,041 77	36,660,401 63	3
—	—	—	—	—	—	.00248	5,124 55	21,762 63	4
—	—	.2267	1,809,005 31	—	—	.04545	93,915 73	2,312,359 56	5
.2265	1,209,299 37	—	—	—	—	.09501	1725,452 81	2,418,176 21	6
—	—	—	—	—	—	.00177	3,657 44	15,506 94	7
.0523	279,233 36	—	—	.021799330	692,514 04	.00977	20,188 27	1,112,029 96	8
—	—	—	—	—	—	—	—	1,861 40	9
—	—	.0219	174,756 14	—	—	.00547	11,302 95	239,528 00	10
—	—	—	—	—	—	.00220	4,545 98	19,302 17	11
.0571	334,360 90	—	—	.020774439	659,955 63	.01048	21,655 38	1,156,380 21	12
—	—	—	—	—	—	.00266	5,496 50	23,326 56	13
—	—	—	—	—	—	.00215	4,442 66	18,808 42	14
—	—	—	—	—	—	.00577	11,922 86	84,040 78	15
.0101	53,924 61	—	—	.003496232	111,067 16	—	—	164,991 77	16
—	—	—	—	—	—	.02341	58,705 08	367,933 07	17
.0809	461,430 77	—	—	.019929796	633,123 29	.01726	35,665 25	1,334,260 95	18
.0525	280,301 18	—	—	.011805628	375,037 36	.00930	19,217 08	842,538 00	19
.0349	186,333 54	—	—	.009593349	304,758 40	.00654	13,513 95	587,673 80	20
—	—	.0531	423,723 79	.006936638	220,360 86	.01152	23,804 38	833,281 06	21
—	—	—	—	.002614295	83,050 07	.00310	6,405 69	146,133 39	22
—	—	—	—	—	—	.00236	4,876 59	28,653 39	23
—	—	.1308	1,043,748 98	.002825266	89,752 13	.03099	64,036 27	1,491,654 65	24
—	—	.0534	426,117 70	.023478799	745,866 86	.01173	24,238 32	1,339,676 86	25
.0363	193,808 24	—	—	.012089623	384,059 22	.00600	12,398 12	707,608 62	26
—	—	—	—	—	—	.00223	4,607 97	29,486 26	27
.1299	693,545 20	—	—	.049191695	1,562,705 79	.02508	51,824 13	2,595,022 60	28
.0098	52,322 89	—	—	.004319216	137,211 45	.00198	4,091 38	216,664 13	29
—	—	—	—	.004759425	151,195 87	.00432	8,926 64	201,590 66	30
.0205	109,450 94	—	—	—	—	.00371	7,666 17	157,040 69	31
—	—	.0477	380,633 23	—	—	.01095	22,626 56	516,997 75	32
—	—	.0294	234,604 13	.008138709	258,547 87	.00593	12,253 47	565,456 96	33
—	—	—	—	—	—	.00588	12,150 15	66,354 24	34
—	—	—	—	—	—	.00335	6,922 28	37,167 51	35
—	—	—	—	—	—	.00105	2,169 67	9,230 57	36
—	—	—	—	—	—	.00319	6,591 66	27,947 53	37
.0315	168,180 70	—	—	—	—	.00530	10,951 67	259,839 28	38
.0306	163,375 54	—	—	.006728231	213,740 26	.00468	9,670 53	434,197 53	39
.0228	121,730 80	—	—	—	—	.00447	9,236 60	180,178 58	40
1.0000	\$5,398,070 05	1.0000	\$7,979,732 30	1.000000000	\$31,767,675 30	1.00000	\$3,785,277 57	\$58,051,817 62	

³ Includes \$29,500, share of special loan, chapter 512, Acts of 1911.

CHARLES RIVER BASIN DEBT ANALYZED.

DEBT.	Total.	Cambridge. Charles River Bridge.	Boston Charles River Bridge.	Boston Embank- ment.	District.
Gross debt, . . .	\$4,409,000 00	\$600,000 00	\$600,000 00	\$847,636 43	\$2,361,363 57
Sinking fund, . . .	623,722 43	70,871 37	70,871 37	186,968 88	295,010 81
Net debt, . . .	\$3,785,277 57	\$529,128 63	\$529,128 63	\$660,667 55	\$2,066,352 76

SINKING FUND TABLE.

One dollar put in each year, with interest at the rate of 3 per cent. per annum, compounded semi-annually, amounts to the following in from 1 to 50 years, both inclusive:—

To find what amount must be put in each year to sink a given sum at maturity, divide the sum to be sunk by the figures which stand against the number of years and the result will be the amount necessary.

For instance, to find the amount necessary each year, to sink three hundred thousand dollars (\$300,000) in thirty years, divide \$300,000 by 49.19242586.

\$1 for 1 year	=	1.03022500	\$1 each year for 19 years	=	25.93195699
\$1 in 2 years	=	1.06136355	\$1 in 20 years	=	1.81401838
\$1 each year for 2 years	=	2.09158855	\$1 each year for 20 years	=	27.74597537
\$1 in 3 years	=	1.09344326	\$1 in 21 years	=	1.86884708
\$1 each year for 3 years	=	3.18503181	\$1 each year for 21 years	=	29.61482245
\$1 in 4 years	=	1.12649258	\$1 in 22 years	=	1.92533299
\$1 each year for 4 years	=	4.31152439	\$1 each year for 22 years	=	31.54015544
\$1 in 5 years	=	1.16054082	\$1 in 23 years	=	1.98352617
\$1 each year for 5 years	=	5.47206521	\$1 each year for 23 years	=	33.52368161
\$1 in 6 years	=	1.19561816	\$1 in 24 years	=	2.04347825
\$1 each year for 6 years	=	6.66768337	\$1 each year for 24 years	=	35.56715986
\$1 in 7 years	=	1.23175572	\$1 in 25 years	=	2.10524238
\$1 each year for 7 years	=	7.89943909	\$1 each year for 25 years	=	37.67240224
\$1 in 8 years	=	1.26898553	\$1 in 26 years	=	2.16887333
\$1 each year for 8 years	=	9.16842462	\$1 each year for 26 years	=	39.84127557
\$1 in 9 years	=	1.30734062	\$1 in 27 years	=	2.23442753
\$1 each year for 9 years	=	10.47576524	\$1 each year for 27 years	=	42.07570310
\$1 in 10 years	=	1.34685499	\$1 in 28 years	=	2.30196310
\$1 each year for 10 years	=	11.82262023	\$1 each year for 28 years	=	44.37766620
\$1 in 11 years	=	1.38756368	\$1 in 29 years	=	2.37153993
\$1 each year for 11 years	=	13.21018391	\$1 each year for 29 years	=	46.74920613
\$1 in 12 years	=	1.42950279	\$1 in 30 years	=	2.44321973
\$1 each year for 12 years	=	14.63968670	\$1 each year for 30 years	=	49.19242586
\$1 in 13 years	=	1.47270952	\$1 in 31 years	=	2.51706605
\$1 each year for 13 years	=	16.11239622	\$1 each year for 31 years	=	51.70949191
\$1 in 14 years	=	1.51722216	\$1 in 32 years	=	2.59314437
\$1 each year for 14 years	=	17.62961838	\$1 each year for 32 years	=	54.30263628
\$1 in 15 years	=	1.56308020	\$1 in 33 years	=	2.67152215
\$1 each year for 15 years	=	19.19269858	\$1 each year for 33 years	=	56.97415843
\$1 in 16 years	=	1.61032430	\$1 in 34 years	=	2.75226890
\$1 each year for 16 years	=	20.80302288	\$1 each year for 34 years	=	59.72642733
\$1 in 17 years	=	1.65899635	\$1 in 35 years	=	2.83545622
\$1 each year for 17 years	=	22.46201923	\$1 each year for 35 years	=	62.56188355
\$1 in 18 years	=	1.70913951	\$1 in 36 years	=	2.92115788
\$1 each year for 18 years	=	24.17115874	\$1 each year for 36 years	=	65.48304143
\$1 in 19 years	=	1.76079825	\$1 in 37 years	=	3.00944986
\$1 each year for 19 years	=	25.93195699	\$1 each year for 37 years	=	68.49249129

SINKING FUND TABLE — *Concluded.*

\$1 each year for 37 years = 68.49249129	\$1 each year for 44 years = 92.26545692
\$1 in 38 years = 3.10041047	\$1 in 45 years = 3.81894828
\$1 each year for 38 years = 71.59290176	\$1 each year for 45 years = 96.08440520
\$1 in 39 years = 3.19412036	\$1 in 46 years = 3.93437598
\$1 each year for 39 years = 74.78702212	\$1 each year for 46 years = 100.01878118
\$1 in 40 years = 3.29066264	\$1 in 47 years = 4.05329248
\$1 each year for 40 years = 78.07768476	\$1 each year for 47 years = 104.07207366
\$1 in 41 years = 3.39012290	\$1 in 48 years = 4.17580323
\$1 each year for 41 years = 81.46780766	\$1 each year for 48 years = 108.24787689
\$1 in 42 years = 3.49258936	\$1 in 49 years = 4.30201689
\$1 each year for 42 years = 84.96039702	\$1 each year for 49 years = 112.54989378
\$1 in 43 years = 3.59815287	\$1 in 50 years = 4.43204535
\$1 each year for 43 years = 88.55854989	\$1 each year for 50 years = 116.98193913
\$1 in 44 years = 3.70690703	
\$1 each year for 44 years = 92.26545692	

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